

82690

Delaval, Jan

From: Roark, Jessica
Sent: Wednesday, December 18, 2002 2:30 PM
To: Delaval, Jan
Subject: alignments

Jan,

Would you please align GenBank AB014553.1 (GI:3327119) with the following sequences from 09/728,420?

A pairwise alignment would be great between AB014553.1 and each of

SEQ ID NO:6,
SEQ ID NO:11 and
SEQ ID NO:16.

Thanks!

Jessica H. Roark

CM1 8A03
Mailbox 9E12
Art Unit 1644
703 605-1209

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

82586

Delaval, Jan

From: Roark, Jessica
Sent: Wednesday, December 18, 2002 7:04 AM
To: Delaval, Jan
Subject: 09/728,420

Jan,

Please search (if you haven't already) only against the PGPub database the following from 09/728,420:

SEQ ID NO:7,
SEQ ID NO:12 and
SEQ ID NO:13.

Results on paper please.

Thanks!

Jessica H. Roark

CM1 8A03
Mailbox 9E12
Art Unit 1644
703 605-1209

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 – 703-308-4498
jan.delaval@uspto.gov

; Entered [jdelaval 18-Dec-02 16:41]

SEQ11

atgcgggtgggcagtccttggaactgctcttctctgtctcttcagcagccttcagatgatactcaggagaag
aagtccagagcgatggttaggcagcgactggagctcagctgcgttgccctgaaggaagccgttttgattt
aaatgatgtttacgtatattggcaaacagtagtgcgaaacctgggtgacctaccacatcccacagaac
agctccttggaaaacgtggacgcgctacccgaacgagccctgatgcaccggccggtcatgctgggg
gcgaacttcctcctgctctgtcaactcaccctccaggaagcagagaatttcactcgctgggtgtgag
ccaatccctgggattccaggaggttttgagcgttgaggttacatgcatgtggcagcaaaacttcagcgtg
cccgctcagcgcctcccaacagccctccaggatgagctcaccttcacgtgtaeatccatcaacggct
accaggcccaacgtgtactggatcaataagacgggaacacagcctgctggaccaggctctgcagaatga
caccgtctctgaacatgcggggcttgatagcgtggtcagcgtgctgaggtcgcacggacccacgc
gtgaacattggctgctscatagagaaagtgcttctgcagcagaacctgactgtcggcagccagacaggaa
atgacatcggagagagagacaagatcacagagaatccagtcagtcaccggcgagaaaaacgcggccacgtg
gagcatcctggctgtcctgtgctgtgtggtcgtggcgttggtccataggctgggtgtgcagggaaccga
tgctcccaacacagctatgcagggt1

; Entered [jdelaval 18-Dec-02 16:41]

SEQ16

gctggtacgcctgcaggtaaccgggtccggaattcccgggtgacccacgcgtcccgccacgcgtccgggg
agcgagtttaggcgatctccgcgcctccgaggttgctcctccgaggtctcccgcccaagtctct
ccgcgcccgaggtctccgcgcctccgaggtctccgcgcctccgaggtctccgcgcctccgaggtcggg
cagtcctggaactgctctccttgctcttcagcagccttcgagctgatactcaggagaaggaaagtccagagcg
atggtaggcagcgactggagctcagctgcgcttgccctgaaggaagccgttttgatttaaatgatgttt
acgtatattggcaaacctgagtcgaaaaacgttggtgacctaccatcccacagacacagctccttggga
aaacgtggacacgcctaccggaacccgagccctgatgtcacccgcggcatgctgcggggcgactttccc
ctgcgcttggttaacgtcaccccccaggagcagagaagtttcactgcctggttgtgagcaaatccctgg
gattccaggaggtttttgagcgttgaggttacatgcatagtggcagcaaaacttcagcgtccctgcgcag
cgcctccacacgcctccaggatgagctcaccttcacgtgtacatccataaacggctaccaccaggccc
aacgctgctaggatcaataagacggacaacagcctgcggaccaggctctgcagaaatgcacacctttct
tgaaactgcggggctgttatgacgtgtcagcgtgctgaggatcgacgacccccagcgtgaaacttgg
ctgctgcataagaaactgtctctgcagcaaacctgactgtcggcagccagacaggaataatgacatcgga
gagagacaagatcacagagaatccagtcagtcaccggcgagaaaaacggggccacgtggagcatcctgg
ctgctcctgtgctgctgtgtgctggtggcgtggccataggctgggtgtgcaggacacgcatgcctccaaca
cagctatcaggtgactgggtgtgagtcggagacagagctcactggccacgttttacccggagactcacc
gcccagagcgtggacagggcttccgtgagacgcccacgtgagagggcagggtggcagcttgagcatggact
cccagactgcaggggagcacttggggcagcccccaaggagaccactgctggatcccagggaagaacctgct
ggcgttggtctgtgactcctggaatgaggccctttc1

— 6 —

[illegible]

```
SEQ11 337 TGCCTGCTGTGAGCCAAATCCCTGGGATTCAGAGAGTTTGTAGCGTTGAGGT TACAC
SEQ16 536 TGCCTGCTGTGAGCCAAATCCCTGGGATTCAGAGAGTTTGTAGCGTTGAGGT TACAC
AB014553 465 TGCCTGCTGTGAGCCAAATCCCTGGGATTCAGAGAGTTTGTAGCGTTGAGGT TACAC
consensus TGCTCGTGTGAGCCAAATCCCTGGGATTCAGAGAGTTTGTAGCGTTGAGGTAcac

SEQ6 473 TGCCTGCTGTGAGCCAAATCCCTGGGATTCAGAGAGTTTGTAGCGTTGAGGTAcac
SEQ11 395 TGCATGTGGCAGCAAACTTCAGTACAACCTGTCTATCAGCACTCTGATAGCTcCaaCcCggg
SEQ16 594 TGCATGTGGCAGCAAACTTCAGTACAACCTGTCTATCAGCACTCTGATAGCTcCaaCcCggg
AB014553 523 TGCATGTGGCAGCAAACTTCAGTACAACCTGTCTATCAGCACTCTGATAGCTcCaaCcCggg
consensus TGcAtGTGGCAGCAAACTTCAGTACAACCTGTCTATCAGCACTCTGATAGCTcCaaCcCggg

SEQ6 534 ccAgGaaCgLaCCTTaCAcCTGcAtgTCCaagAAAtGGCTACCCagaGCCAAACcGTGTATTGG
SEQ11 453 GGATGAGCTCACCTTCAACCTGCTGATCATCAATAAACGGCTACCCAGGCCCAACGCTGTACTGG
SEQ16 652 GGATGAGCTCACCTTCAACCTGCTGATCATCAATAAACGGCTACCCAGGCCCAACGCTGTACTGG
AB014553 581 GGATGAGCTCACCTTCAACCTGCTGATCATCAATAAACGGCTACCCAGGCCCAACGCTGTACTGG
consensus ggAtGAGCTcACCTTcACCTGtAcAtCCAtaAaAGGCTACCCcagGCCCAAGtGTGTACTGG

SEQ6 595 ATCAaAcaACGGAaAAtAGCCTaaTaGACaCcgGCTGTGAGAAAtAACAcTGTCTaCTTGA
SEQ11 514 ATCAATTAAGACGGAaAAtAGCCTaaTaGACaCcgGCTGTGAGAAAtAACAcTGTCTaCTTGA
SEQ16 713 ATCAATTAAGACGGAaAAtAGCCTaaTaGACaCcgGCTGTGAGAAAtAACAcTGTCTaCTTGA
AB014553 642 ATCAATTAAGACGGAaAAtAGCCTaaTaGACaCcgGCTGTGAGAAAtAACAcTGTCTaCTTGA
consensus ATCAATaagACGGAaAAtAGCCTgcTgACcagGCTGTGAGAAAtgACAcAcCGTCTcTCTTGA

SEQ6 656 ACaAgTtGGGcCTGTATGAtGTAAATAGAcacATaAGGCTCcCTtGGACatCtCgTGgGgA
SEQ11 575 ACATGCGGGCTGTATGACGTGGTACAGCTGTGAGATCGACCGACCCCGAGCGTGA
SEQ16 774 ACATGCGGGCTGTATGACGTGGTACAGCTGTGAGATCGACCGACCCCGAGCGTGA
14553 703 ACATGCGGGCTGTATGACGTGGTACAGCTGTGAGATCGACCGACCCCGAGCGTGA
consensus ACAtGcgGGcCTGTATGAcGTgGTTCAGcGTgcTgAGATcGcCacGGACccCcagGtGaa

SEQ6 717 tGTTctGTCTGCTGATAGAAATGTGcTCTcACaGAAcATcACTagCatTAGCCAGGca
SEQ11 636 CATTTGCTGTGATAGAAATGTGcTCTcACaGAAcATcACTagCatTAGCCAGGcag
SEQ16 835 CATTTGCTGTGATAGAAATGTGcTCTcACaGAAcATcACTagCatTAGCCAGGcag
AB014553 764 CATTTGCTGTGATAGAAATGTGcTCTcACaGAAcATcACTagCatTAGCCAGGcag
consensus caTTggcTGTCTGcATaGAGAAcGTGTcTCTgCAGcAAcCTgACTgtCgggACCCAGGcga

SEQ6 778 gaaagtTtcAcTGGAAATaACaagaAccccAcAGgAaAcCcacaAtAATgagtTaAaag
SEQ11 694 ACAGGAATGATCATCGGAGAGAGAGACAGATCACAGAGAAATCCAGTCAGTA
SEQ16 893 ACAGGAATGATCATCGGAGAGAGAGACAGATCACAGAGAAATCCAGTCAGTA
AB014553 822 ACAGGAATGATCATCGGAGAGAGAGACAGATCACAGAGAAATCCAGTCAGTA
consensus gaaagtTtcAcAGGAATaTgcggagagagAcaAgAtCacagAgAAAtccagTcAgta
```

```
SEQ6 839 tCcttGtccccgtCcttGcTgtactGcgggcagcGGcAtTCgtTtCcTtCaTcaTataCag
SEQ11 746 CCGCGAGAAAAACCGCGCCACGTCGAGCATCCTGGCTGTCTGTGCTCTCTGTGTGTGTGT
SEQ16 945 CCGCGAGAAAAACCGCGCCACGTCGAGCATCCTGGCTGTCTGTGCTCTCTGTGTGTGT
AB014553 874 CCGCGAGAAAAACCGCGCCACGTCGAGCATCCTGGCTGTCTGTGCTCTCTGTGTGTGT
consensus cCggcGagaaaaaCgCGCcagGtGgagcatcctGGcTgtCcTtGtGcTtGcTtGtGgtCgt

SEQ6 900 acgcaCgGgtccccCaCcGaagcTatAcaGgaCccaaagactgtACAgcttGaaattacagac
SEQ11 807 GCGGCTGGCCATAGGCTGGGTGTGCGAGGACCGATGCTCCAAACACAGCTATGAGGT
SEQ16 1006 GCGGCTGGCCATAGGCTGGGTGTGCGAGGACCGATGCTCCAAACACAGCTATGAGGTGCG
AB014553 935 GCGGCTGGCCATAGGCTGGGTGTGCGAGGACCGATGCTCCAAACACAGCTATGAGGTGCG
consensus ggcggtGgccataggCtGggtGtGcAggGacCgatgcctccaACAcagcAtAtgcaggtgcc

SEQ6 961 cacgccc
SEQ11 865
SEQ16 1067 TGGGCTGTGAGTCCCGAGACAGAGCTCACCTGG
AB014553 996 TGGGCTGTGAGTCCCGAGACAGAGCTCACCTGGTgagtttgccgtggaaagcagcaggttct
consensus tgggctgtgagtcCGgagacagagctcactggtagtttgccgtggaaagcagcaggttct

SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1057 gggggggccaggggagggttggctgccagctgtctttcagagtttcaaaaaactttcagaa
consensus gggggggccaggggagggttggctgccagctgtctttcagagtttcaaaaaactttcagaa

SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1118 ggcaaaagtcccttgcccttgaacaaactgttgttccctggagacgcagcgaagccctcgatgg
consensus ggcaaaagtcccttgcccttgaacaaactgttgttccctggagacgcagcgaagccctcgatgg

SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1179 tgcgcagggcatttcttcgcagctcccttggcatgggattggcatcctgggtgcaacttgg
consensus tgcgcagggcatttcttcgcagctcccttggcatgggattggcatcctgggtgcaacttgg

SEQ6 967
SEQ11 865
SEQ16 1099
```

AB014553 1240 tcacactgcgattgggattttcccaacatgcacagaagcagagagtgctagaccccc
consensus tcacactgcgattgggattttcccaacatgcacagaagcagagagtgctagaccccc
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1301 gcgctccccaagctgcacagccccgaacaggggtgtccagggcgggtccaggcaaccggcgcaca
consensus gcgctccccaagctgcacagccccgaacaggggtgtccagggcgggtccaggcaaccggcgcaca
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1362 gcccccacatgggggtgtcccgagctgggtccaaagcaaccggcgcacagccccgtgggggtgtccca
consensus gcccccacatgggggtgtcccgagctgggtccaaagcaaccggcgcacagccccgtgggggtgtccca
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1423 gggcgggtccagggcaaccggcgcacagccccgtgggggtgtccagggcgggtccagggcaaccg
consensus gggcgggtccagggcaaccggcgcacagccccgtgggggtgtccagggcgggtccagggcaaccg
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1484 ggcgcacagccccacatgggggtgtccggaagtgggtccaaagcaaccggcgcacagccccgtggg
consensus ggcgcacagccccacatgggggtgtccggaagtgggtccaaagcaaccggcgcacagccccgtggg
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1545 gtgtccagggcgggtccagggcaaccggcgcacagccccgtgggggtgtctcagagcgggtccg
consensus gtgtccagggcgggtccagggcaaccggcgcacagccccgtgggggtgtctcagagcgggtccg
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1606 ggcacacgcacagctctctctgtcgtggcagcaactcctcgagctctcgcttggccctcagttcc
consensus ggcacacgcacagctctctctgtcgtggcagcaactcctcgagctctcgcttggccctcagttcc
SEQ6 967

SEQ11 865
SEQ16 1099
AB014553 1667 aggaagcaacatagattgtgattccctgtccaatttgggaaaaaatgtccacacacggtcacccc
consensus aggaagcaacatagattgtgattccctgtccaatttgggaaaaaatgtccacacacggtcacccc
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1728 acctgycaggtgcctctgctcgcagaaggcgcgtcggtcttcgcagagcaggcacagccgggtctc
consensus acctgycaggtgcctctgctcgcagaaggcgcgtcggtcttcgcagagcaggcacagccgggtctc
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1789 ccgcacatgggccaagatccccctccgaagccctgtttgcgcgccagaagaaagggttccccg
consensus ccgcacatgggccaagatccccctccgaagccctgtttgcgcgccagaagaaagggttccccg
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1850 gggacaagtgggtctcaggggtgtgcgcagcaacaacagctgtgtcaacctgtggaaccaaggc
consensus gggacaagtgggtctcaggggtgtgcgcagcaacaacagctgtgtcaacctgtggaaccaaggc
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1911 gaagctgattggcgcgaacgcgagaaacgcacattccaaagccagggtcggcccatccagatgatgc
consensus gaagctgattggcgcgaacgcgagaaacgcacattccaaagccagggtcggcccatccagatgatgc
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 1972 aggaaacacagcttgcctaataaacacgcgcgcctgttcccgctcggaagccagtcgaagtccccc
consensus aggaaacacagcttgcctaataaacacgcgcgcctgttcccgctcggaagccagtcgaagtccccc
SEQ6 967
SEQ11 865
SEQ16 1099
AB014553 2033 tgaacaggccgctgtttcccgaaagcttcaaacctctgtcttccacacaaagctggaactcctgaga

```
consensus      tgaacagccgctgtttccgaagctttaaacccctgtgtttccaccaaagctgagtcctbaga
      SEQ6      967
      SEQ11     865
      SEQ16     1099
AB014553 2094 aaaccggcgtctgcctgcagaagggaaggggtgcttcatgttctctctctctctctct
consensus      aaaccggcgtctgcctgcagaagggaaggggtgcttcatgttctctctctctctctct
      SEQ6      967
      SEQ11     865
      SEQ16     1099
AB014553 2155 cccttccaaggccacgtttgaccggagctcaaccgccacagagcgtggacaggggttccgtga
consensus      cccttccaaggccacgtttgaccggagctcaaccgccacagagcgtggacaggggttccgtga
      SEQ6      967
      SEQ11     865
      SEQ16     1099
      CCACGTTTGACCGAGACTCACCGCCCHAGAGCTGGACAGGGCTTCGTGA
      |||||
AB014553 2155 cccttccaaggccacgtttgaccggagctcaaccgccacagagcgtggacaggggttccgtga
consensus      cccttccaaggccacgtttgaccggagctcaaccgccacagagcgtggacaggggttccgtga
      SEQ6      967
      SEQ11     865
      SEQ16     1149
      GACGCCACCGTGAGAGCCAGGTGGCAGCTTGACATGGACTCCACACTGCAGGGGAGCA
      |||||
AB014553 2216 GACGCCACCGTGAGAGCCAGGTGGCAGCTTGACATGGACTCCACACTGCAGGGGAGCA
consensus      gacgccaccgtgagaggccaggtggcagcttgagcattgagcattgccagactgcaggggagca
      SEQ6      967
      SEQ11     865
      SEQ16     1210
      CTTGGGGCAGCCCCCAGAAAGACCACCTGCTGGAT
      |||||
AB014553 2277 CTTGGGGCAGCCCCCAGAAAGACCACCTGCTGGATcccagggagaaacctgctggcgttggt
consensus      cttggggcagccccagaaagaccactgctggatcccagggagaaacctgctggcgttggt
      SEQ6      967
      SEQ11     865
      SEQ16     1244
AB014553 2338 gtgatcctggaatgagggccctttcaaaagcgtcatccacacaaaggcaaatgtccccaag
consensus      gtgatcctggaatgagggccctttcaaaagcgtcatccacacaaaggcaaatgtccccaag
      SEQ6      967
      SEQ11     865
      SEQ16     1244
AB014553 2399 tgagtgggtcccgctgtcactgccagtcaccacacaggaaggactgggtgatgggtgtgc
consensus      tgagtgggtcccgctgtcactgccagtcaccacacaggaaggactgggtgatgggtgtgc
      SEQ6      967
      SEQ11     865
      SEQ16     1244
AB014553 2826 gctgttccggtgaaaagttgagccacctttggaagacgcacgggtggagtttgcagaaga
consensus      gctgttccggtgaaaagttgagccacctttggaagacgcacgggtggagtttgcagaaga
```

```
      SEQ16     1244
AB014553 2460 tctaccggagcgtgcgggatttcagcaccaggctcttcccagttaccaccagaccactgtgg
consensus      tctaccggagcgtgcgggatttcagcaccaggctcttcccagttaccaccagaccactgtgg
      SEQ6      967
      SEQ11     865
      SEQ16     1244
AB014553 2521 gtcttcccgctgggatgcgggatcctgcagaccgaagggtgtttggtttaaaagaagactgg
consensus      gtcttcccgctgggatgcgggatcctgcagaccgaagggtgtttggtttaaaagaagactgg
      SEQ6      967
      SEQ11     865
      SEQ16     1244
AB014553 2582 gcgtccgctcttccaggacggcgtctgtgctgctgggggtcacgcgagagctgttgcagggg
consensus      gcgtccgctcttccaggacggcgtctgtgctgctgggggtcacgcgagagctgttgcagggg
      SEQ6      967
      SEQ11     865
      SEQ16     1244
AB014553 2643 acacggtcacaggagctcttctgcccgaacgctcccaacctgctctcccgcggaaagcca
consensus      acacggtcacaggagctcttctgcccgaacgctcccaacctgctctcccgcggaaagcca
      SEQ6      967
      SEQ11     865
      SEQ16     1244
AB014553 2704 caggaccactcatgtgtgtgccacaaagttagttagccgtccacaccgaggagcccccg
consensus      caggaccactcatgtgtgtgccacaaagttagttagccgtccacaccgaggagcccccg
      SEQ6      967
      SEQ11     865
      SEQ16     1244
AB014553 2765 gaagtccccactgggttccagtgtcctctgccacattccctgggaggaacaatgtccctcg
consensus      gaagtccccactgggttccagtgtcctctgccacattccctgggaggaacaatgtccctcg
      SEQ6      967
      SEQ11     865
      SEQ16     1244
AB014553 2826 gctgttccggtgaaaagttgagccacctttggaagacgcacgggtggagtttgcagaaga
consensus      gctgttccggtgaaaagttgagccacctttggaagacgcacgggtggagtttgcagaaga
```

SEQ6 967
SEQ01 865
SEQ16 1244
AB014553 2887 aaggtctgtgccagggccgtgttctgtctacaggggtctgcggggctcttggctctgcagcga
consensus aaggtctgtccagggccgtgttctgtctacaggggtctgcggggctcttggctctgcagcga
SEQ6 967
SEQ01 865
SEQ16 1244
AB014553 2948 gaaagacacagcccaagcaggggtctggagacgcccattgtccaagcagcgcagggccttggcaaca
consensus gaaagacacagcccaagcaggggtctggagacgcccattgtccaagcagcgcagggccttggcaaca
SEQ6 967
SEQ01 865
SEQ16 1244
AB014553 3009 cggcccccaagatctctgagcagcaggttaggttgcatggagagaggtatcaccttggctggcaca
consensus cggcccccaagatctctgagcagcaggttaggttgcatggagagaggtatcaccttggctggcaca
SEQ6 967
SEQ01 865
SEQ16 1244
AB014553 3070 gtcccccttctcacctcagcaatgatccccaagtggagagtggtctcccccgcccccaacc
consensus gtcccccttctcacctcagcaatgatccccaagtggagagtggtctcccccgcccccaacc
SEQ6 967
SEQ01 865
SEQ16 1244
AB014553 3131 accctcagcagcccccaaccacatcaacctgaggggtccccagggctcctgattgaagaacctcc
consensus accctcagcagcccccaaccacatcaacctgaggggtccccaggggtcctgattgaagaacctcc
SEQ6 967
SEQ01 865
SEQ16 1244
AB014553 3192 gaccccaagcgcaggtctcctcggagcccaacagtcaccaaggggcaagtgtgaggggtacaa
consensus gaccccaagcgcaggtctcctcggagcccaacagtcaccaaggggcaagtgtgaggggtacaa
SEQ6 967
SEQ01 865
SEQ16 1244
AB014553 3253 gccctgggcccctgaccagccccggcgaacctgccaatgctggttcccggaaatgaatcaagctgct

consensus gccctgggcccctgaccagccccggcgaacctgccaatgctggttcccggaaatgaatcaagctgct
SEQ6 967
SEQ01 865
SEQ16 1244
AB014553 3314 gactgtctccagaaggggtctggaaagatgctgccaggtgacccgaggtgcactcgcctccaa
consensus gactgtctccagaaggggtctggaaagatgctgccaggtgacccgaggtgcactcgcctccaa
SEQ6 967
SEQ01 865
SEQ16 1249 GGAGA
AB014553 3375 GGAGAtggagtagacagcctggccttggccctcgggacacattgtctgcccccggaatctatg
consensus gggatggagtagacagcctggccttggccctcgggacacattgtctgcccccggaatctatg
SEQ6 967
SEQ01 865
SEQ16 1254
AB014553 3436 gcaaatgccccctccttcttacttccagaaatccccctgaatccccaaggttcagccaagacc
consensus gcaaatgccccctccttcttacttccagaaatccccctgaatccccaaggttcagccaagacc
SEQ6 967
SEQ01 865
SEQ16 1254
AB014553 3497 tgttacagccctgtgtcacttggaaatgacagctgtgtgagggcctgcacattcagaccag
consensus tgttacagccctgtgtcacttggaaatgacagctgtgtgagggcctgcacattcagaccag
SEQ6 967
SEQ01 865
SEQ16 1254
AB014553 3558 acttgaacaaaaggagagtgagagactcaaggctacaaatgaggttccaagtacttgttaca
consensus acttgaacaaaaggagagtgagagactcaaggctacaaatgaggttccaagtacttgttaca
SEQ6 967
SEQ01 865
SEQ16 1254
AB014553 3619 agaaatctggttcttctgcaaaaaaagtccttaacctgggacctttaggttgaaatctgggaccac
consensus agaaatctggttcttctgcaaaaaaagtccttaacctgggacctttaggttgaaatctgggaccac
SEQ6 967
SEQ01 865

```

SEQ16 1254
AB014553 3680 tcccgcttttaacatgaagcattagaagatgtgtggtgtttataaaaaaacagtgtgtcat
consensus      tcccgcttttaacatgaagcattagaagatgtgtggtgtttataaaaaaacagtgtgtcat

SEQ6 967
SEQ11 865
SEQ16 1254
AB014553 3741 caccgggcatgtattggcagggaacaaggagctgttgggtgtggaagtgtggggtgttggga
consensus      caccgggcatgtattggcagggaacaaggagctgttgggtgtggaagtgtggggtgttggga

SEQ6 967
SEQ11 865
SEQ16 1254
AB014553 3802 aagtgggctgtgggtgcccatttgcagtgaactgtgaagtgaactccaggacggacctgcgggg
consensus      aagtgggctgtgggtgcccatttgcagtgaactgtgaagtgaactccaggacggacctgcgggg

SEQ6 967
SEQ11 865
SEQ16 1254
AB014553 3863 gcacccagaggtccttaagccccaggactgagggtcgtgcataccactcgggtgtcccggg
consensus      gcacccagaggtccttaagccccaggactgagggtcgtgcataccactcgggtgtcccggg

SEQ6 967
SEQ11 865
SEQ16 1254
14553 3924 aggtgccctggggccggggacctcacaggcaggacgagcgacactaatgcaggagaggggag
consensus      aggtgccctggggccggggacctcacaggcaggacgagcgacactaatgcaggagaggggag

SEQ6 967
SEQ11 865
SEQ16 1254
AB014553 3985 tctggccccagcttttctctatcagaggcgattttctcttcaccaggggatgggcaggaaaaga
consensus      tctggccccagcttttctctatcagaggcgattttctcttcaccaggggatgggcaggaaaaga

SEQ6 967
SEQ11 865
SEQ16 1254
AB014553 4046 ggcagggggccccagaagcttctgtccctcatgctgagggcagcggggacacttggaggct
consensus      ggcagggggccccagaagcttctgtccctcatgctgagggcagcggggacacttggaggct
```

```

SEQ6 967
SEQ11 865
SEQ16 1254
AB014553 4107 gctgtcaccactgtgcgtccaaggccatgctctctgcgggtcagtgctcctgagtcctcgacctc
consensus      gctgtcaccactgtgcgtccaaggccatgctctctgcgggtcagtgctcctgagtcctcgacctc

SEQ6 967
SEQ11 865
SEQ16 1255 CCTGCTGG
AB014553 4168 CCTGCTGGtccctgaagccccctcagaagccccctgcctgtcacgtcggcatttgtgagacct
consensus      cctgtgtgtccctgaagccccctcagaagccccctgcctgtcacgtcggcatttgtgagacct

SEQ6 967
SEQ11 865
SEQ16 1263
AB014553 4229 accctgtaacgctgccctctcagcccaacatcagcttctcttctCctTtGCTGTGTaga
consensus      accctgtaacgctgccctctcagcccaacatcagcttctcttctCctTtGCTGTGTaga
                                CgtTgCCTGT
                                |
                                |
                                |
                                |
                                |

SEQ6 967
SEQ11 865
SEQ16 1273 gAtCCTGGAAtgagGccctTtc
AB014553 4290 cAGGCTGGAtTccactgtTgggacagccatctccagaaacctgactttaagagagtaagatg
consensus      -a-ctgga-t---g---t---acagccatctccagaaacctgactttaagagagtaagatg

SEQ6 967
SEQ11 865
SEQ16 1295
AB014553 4351 caaatcgt
consensus      caaatcgt

Alignment score = -50460.00
Scoring matrix:

      1      2      3      4
1  -16657-16606-14830
2  -91 -1532
3  -1286
4
```


220 230 240

1150 ACGCCACGCTGAGAGCCAGGTGGC-----AGCT-TGAGCATG---GACTCCC-AGACT-GCAGGGAGCACT 1210
1150 1160 1170 1180 1190 1200 1210
1150 TCCTGGAGCGCAGCAGCAAGCCCTC-GATGCTGGCAGCGCATTTCTCTGAGCTCCCTTGGCATGGGA--- 1210
1150 1160 1170 1180 1190 1200 1210
1150 TGGGAGAGCCCCCAGAAAGACCACTCTCTGATCCCA-GGAGAACCTG---CTGGCGTTGGC-TGTGATCC 1270
1220 1230 1240 1250 1260 1270
1220 TGGCATCTGCTGTGACATTTGTCACACTGCGATGGATTTTCCCAACATGCACAGAACGACAGACGAGT 1280
1220 1230 1240 1250 1260 1270
1220 TGGAAAT-----GAG-GCCCTTC 1280
1280 1290 X
1290 GCTAGACCCCGCGCTCCCGCAGTCCCGACCGCCCGACGAGGTGTCCAGGGCGGTCCAGGCACCGCGGCCCA 1360
1290 1300 1310 1320 1330 1340 1350 1360
1370 GCCCCATGGGTGTCCGAGTGGGTCCAGGACCGCGGCCCGAGCCCCCGTGGGTGTCCAGGGCGGTGCCA 1430
1440 1450 1460 1470 1480 1490 1500
1440 GGCACCGGCGCCCGCAGCCCGCTGGGTGTCCAGGGCGGTCCAGGACCGCGGCCCGCCCATGCGGTGT 1500
1510 1520 1530 1540 1550 1560 1570
1510 CCGGATGGGTCCAGGACCGCGGCCCGAGCCCCCGTGGGTGTCCAGGGCGGTCCAGGACCGCGGCCCGCAG 1570
1580 1590 1600 1610 1620 1630 1640
1580 CCCCTGTGGGTGTCTGGAGCGGTCCGGGCGCCCGCCAGCTTCTCTCTGTGGCAGCCTCTCTGAGCTCTC 1720
1650 1660 1670 1680 1690 1700 1710 1720
1650 GTTTGCCCCCTCAGTCCAGGAGCAACATAGATGTGATTCCTGTCCCAATTTGGGAAAAATGTCCACACACGG 1720
1730 1740 1750 1760 1770 1780 1790
1730 TCACCCACCTGGCAGGTGCTCTGGCTGCAAGGGGCGTGGCTTCGACGGCAGCGCCAGCGGCTCCCCCG 1790
1800 1810 1820 1830 1840 1850 1860
1800 CATGGGCGAGATCCCTCCGAGCCCTGTTTCCGCGCCAGGAGAGGGGTTCCTCCGCGGACAGTGGGTTCAG 1860
1870 1880 1890 1900 1910 1920 1930
1870 GGTGTGGCAGCCACCGACCGTGTGGGTGTCACTGTGGACCCAGCGGAGCTGATGGCCGACCGAGAACGCA 1930
1940 1950 1960 1970 1980 1990 2000
1940 CTTCCAAAGCCAGGTCCGGCCCATCCAGATGATGACAGAACACAGCTTGTCTTAAACACACGCGCGGCTGTTC 2000
2010 2020 2030 2040 2050 2060 2070 2080
2010 CGTCGGAGCCAGTCGAAGTTCCCTGAAACAGCGCGCTGTTTCCGAGCTTTAAACCTGTGTGTTCACCAAGC 2080
2090 2100 2110 2120 2130 2140 2150
2090 TGAGTCTGTGAGAAACCGCGCTCTGCTCGAAGAGGAAAGGGGTGCTTCATGTCTCTCTCTCTCTCTCTCATC 2150
2160 2170 2180 2190 2200 2210 2220
2160 TCCCTTCCAAAGGCCACGTTTACCGGAGCTTCACCGCCAGAGCGTGGACAGGCTTCCCGTGAGACGCCACCG 2220
2230
TGAGAGCCAGGTG

2. ab014553 (1-4358)
US-09-728-420C-1 Sequence 11, Application US/09728420C
Sequence 11, Application US/09728420C
GENERAL INFORMATION:
APPLICANT: Yoshinaga, Steven K.
APPLICANT: Mak, Tak Wah
APPLICANT: Shahinian, Arda
APPLICANT: Trafuri Bladt, Anna
APPLICANT: Senaldi, Giorgio
TITLE OF INVENTION: Novel Polypeptides Involved in Immune Response
FILE REFERENCE: 6843.0050-02
CURRENT APPLICATION NUMBER: US/09/728,420C
CURRENT FILING DATE: 2000-11-28

CAAGGTCA CCCCCCAGGACGAGCAGAGTTCAC - TGCCTGGTGTGAGCCAATC - CCTGGGA-TTCCAGG

GGGCGCCAGCCCCCTGTGGGGTGTCTGAGCGGTCCGGGCAACCCCACTTCTCTGTGGAGCCACTCCT
1550 1560 1570 1580 1590 1700 1710
GCAGCTCTCGTTTGCCCTCAGTTCAGGAGCAGCATAGATGTGATTCCTGTCCAATTGGGAAAAATGTC
1720 1730 1740 1750 1760 1770 1780
CACACACGGTCAACCACTGGGAGGTGCTCTGCTGCAAGGGGGCTGGGCTTGGCAGGCGCAGCCGG
1790 1800 1810 1820 1830 1840 1850
GCTCCCGCCATGGGCGAGGATCCCTCCGAGCCCTGTTGTGGCCGCCAGAGAAAGGGTTCCCGGGGACAG
1860 1870 1880 1890 1900 1910 1920
TGGGCTCAGGGGTGCGAGCCACCAACGCTGTGTGACCTGTGAGCCAGGCGAGCTGATGGCCGACCGC
1930 1940 1950 1960 1970 1980 1990 2000
AGAAACGCACTTCCAGGCGCAGGTGGCCCATCCAGATGATGACAGAAACACAGCTTGCTAAAAACACGGCCG
2010 2020
GCTGTTCCTCCGTCGAGGCCAGTCCA

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 18, 2002, 07:06:12 ; Search time 51.7697 Seconds
(without alignments)
104.267 Million cell updates/sec

Title: US-09-728-420C-7

Perfect score: 1687

Sequence: 1 MQLKPCFVSLGTRQVWKK.....RPHRSYGPVTQLELTDA 322

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 106657 seqs, 16763532 residues

Total number of hits satisfying chosen parameters: 106657

Minimum DB seq length: 0'

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA:*
1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB_pdp:*
2: /cgn2_6/ptodata/1/pubpaa/PTC_NEW_PUB_pdp:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB_pdp:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB_pdp:*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB_pdp:*
6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB_pdp:*
7: /cgn2_6/ptodata/1/pubpaa/PTC_US_PUBCOMB_pdp:*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB_pdp:*
9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB_pdp:*
10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB_pdp:*
11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB_pdp:*
12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB_pdp:*
13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB_pdp:*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB_pdp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	1687	100.0	322 10 US-09-910-174A-29	Sequence 29, Appl
2	600.5	35.6	302 10 US-09-789-561-136	Sequence 136, App
3	600.5	35.6	344 10 US-09-764-853-812	Sequence 812, App
4	599.5	35.5	302 9 US-09-896-738-13	Sequence 13, Appl
5	599.5	35.5	302 10 US-09-955-866-7	Sequence 7, Appl
6	598.5	35.5	302 9 US-09-915-789A-18	Sequence 18, Appl
7	598.5	35.5	343 10 US-09-764-853-630	Sequence 630, App
8	594.5	35.2	345 10 US-09-764-853-810	Sequence 810, App
9	594.5	35.2	309 10 US-09-910-174A-7	Sequence 7, Appl
10	550.5	32.6	241 9 US-09-915-789A-11	Sequence 11, Appl
11	249	14.8	316 10 US-09-789-561-135	Sequence 135, App
12	247	14.6	316 9 US-09-978-285A-137	Sequence 137, App
13	247	14.6	316 9 US-09-896-738-14	Sequence 14, Appl
14	247	14.6	316 9 US-09-978-697-137	Sequence 137, App
15	247	14.6	316 9 US-09-978-192A-137	Sequence 137, App
16	247	14.6	316 10 US-09-875-338-11	Sequence 11, Appl
17	247	14.6	316 10 US-09-955-866-8	Sequence 8, Appl
18	247	14.6	316 12 US-10-052-586-54	Sequence 54, Appl
19	246	14.6	316 9 US-09-915-789A-1	Sequence 1, Appl

20	246	14.6	316 10 US-09-875-338-13	Sequence 13, Appl
21	246	14.6	316 10 US-09-910-174A-24	Sequence 24, Appl
22	245	14.5	316 9 US-09-915-789A-3	Sequence 3, Appl
23	241.5	14.3	534 10 US-09-875-338-7	Sequence 7, Appl
24	241	14.3	698 10 US-09-875-338-9	Sequence 9, Appl
25	236.5	14.0	387 10 US-09-789-561-156	Sequence 156, App
26	232.5	13.8	315 10 US-09-910-174A-28	Sequence 28, Appl
27	227	13.5	215 9 US-09-789-561-158	Sequence 158, App
28	225	13.3	215 9 US-09-915-789A-20	Sequence 20, Appl
29	182	10.8	324 10 US-09-910-174A-6	Sequence 6, Appl
30	175.5	10.4	323 9 US-09-896-738-11	Sequence 11, Appl
31	175.5	10.4	323 9 US-09-915-789A-16	Sequence 16, Appl
32	175.5	10.4	323 10 US-09-955-866-5	Sequence 5, Appl
33	175.5	10.4	329 8 US-08-592-711-4	Sequence 4, Appl
34	175.5	10.4	329 10 US-09-837-867A-23	Sequence 23, Appl
35	175	10.4	309 10 US-09-837-867A-21	Sequence 21, Appl
36	175	10.4	314 10 US-09-837-867A-13	Sequence 13, Appl
37	172.5	10.2	329 10 US-09-303-510-6	Sequence 6, Appl
38	172.5	10.2	329 10 US-09-303-040-6	Sequence 6, Appl
39	171	10.1	480 10 US-09-875-338-5	Sequence 5, Appl
40	169	10.0	292 10 US-09-303-510-2	Sequence 2, Appl
41	169	10.0	292 10 US-09-303-510-4	Sequence 4, Appl
42	169	10.0	292 10 US-09-303-040-2	Sequence 2, Appl
43	169	10.0	292 10 US-09-303-040-4	Sequence 4, Appl
44	167.5	9.9	351 10 US-09-756-983-18	Sequence 18, Appl
45	166	9.8	260 10 US-09-845-899A-5	Sequence 5, Appl

ALIGNMENTS

RESULT 1
US-09-910-174A-29
; Sequence 29, Application US/09910174A
; Patent No. US20020106730A1
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Frazer, Christopher C.
; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1 Members of the B7
; TITLE OF INVENTION: Family and Uses Thereof
; FILE REFERENCE: 35800/236824
; CURRENT APPLICATION NUMBER: US/09/910,174A
; PRIOR FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 09/620,461
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-910-174A-29

Query Match 100.0%; Score 1687; DB 10; Length 322;
Best Local Similarity 100.0%; Pred. No. 6.7e-117;
Matches 322; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MQLKPCFVSLGTRQVWKKLVHSSGFFSGIGLFIILLSSLCNAASAEIVGAMVSNVL 60
DB 1 MQLKPCFVSLGTRQVWKKLVHSSGFFSGIGLFIILLSSLCNAASAEIVGAMVSNVL 60
QY 61 SCIDPRRRHNLISGLVYVQIENPEVSVTYYPYKSPGINVSSYKNRGLSLDSMKQGN 120
DB 61 SCIDPRRRHNLISGLVYVQIENPEVSVTYYPYKSPGINVSSYKNRGLSLDSMKQGN 120
QY 121 FSLYLNKVTPODTQEFTECVPMNTATELVKILEEVRLRVANFSTPVISTDSNPGQE 180
DB 121 FSLYLNKVTPODTQEFTECVPMNTATELVKILEEVRLRVANFSTPVISTDSNPGQE 180
QY 181 RTYTCMSKNGYEPNRYWINTTDSNLIDPALQNNTVYLNKGLYDVISTRLPWTSGRDV 240
DB 181 RTYTCMSKNGYEPNRYWINTTDSNLIDPALQNNTVYLNKGLYDVISTRLPWTSGRDV 240

QY 241 LCCVENVALHONITSISQAESTGNTKNPQETHNELKVLVPVLAVLAAAFVSFIYR 300
DB 241 LCCVENVALHONITSISQAESTGNTKNPQETHNELKVLVPVLAVLAAAFVSFIYR 300
QY 301 RTRPHRSYTGPKTVQLELTDHA 322
DB 301 RTRPHRSYTGPKTVQLELTDHA 322

RESULT 2

US-09-789-561-136
; Sequence 136, Application US/09789561
; Patent No. US2002006481A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 52 Human secreted proteins
; FILE REFERENCE: P2043P1
; CURRENT APPLICATION NUMBER: US/09/789,561
; PRIOR APPLICATION DATE: 2001-02-22
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: PCT/US00/24008
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152,317
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/152,315
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; LOCATION: (128)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-789-561-136

Query Match 35.6%; Score 600.5; DB 10; Length 302;
Best Local Similarity 46.2%; Pred. No. 3.2e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps 8;

QY 32 GLFLLLSLCAASAEVGVAMVGSNNVLSCLDPHRRHFNLSGLVYVWQIENPEVSVTY 91
DB 7 GLFLFSSLRADTQEKVRAVWVGSDELSCACPEGSREFDLNDVYVWQTSSEKTVVTVH 66
QY 92 LPYKSPGINVDSYKRGHLSLDSMKQGNFSLYLNKVTPODTQETCRVFMNTATLVKI 151
DB 67 IPQNSSLENVDSRYNRALMSVAGMLRGDFSLRFLNVTPODEQKHFCLV-LSQSLGFQEV 125
QY 152 LEEVRLVAANFSTPVISTSSNPGQ-ERTYTCMSKNGYPEPNLYWINTTDSLIDTA 210
DB 126 LSXEVTLHVAANFSPVVSAPH-PSQDELFTCTTSINGYPRPNVWINKTDSLLDQA 183
QY 211 LQNTVYLNKGLYDVISTLRPWTSGDVLCCVENVALHONITSISQAESTGNN- 266
DB 184 LQNDTVFLNMRGLYDVVSLRIARTPSVNIQCCIEVLLQNLTVGSQ---TGNDIGER 239
QY 267 ---TKPQETHNNEL---KVLVPVLAVLAAAFVSFIYRRTRPHRSYTGPKTV--QLEL 318
DB 240 DKITENPVSTGKNAATWSILAVLCLLVVVAIGWVCRDCLQH-SYAGAWAVSPETEL 298
QY 319 TDH 321
DB 299 TGH 301

RESULT 3

US-09-764-853-812
; Sequence 812, Application US/09764853
; Patent No. US20020090672A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PJZ06
; CURRENT APPLICATION NUMBER: US/09/764,853
; PRIOR FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 812
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; LOCATION: (170)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-853-812

Query Match 35.6%; Score 600.5; DB 10; Length 344;
Best Local Similarity 46.2%; Pred. No. 3.7e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps
QY 32 GLFLLLSLCAASAEVGVAMVGSNNVLSCLDPHRRHFNLSGLVYVWQIENPEVSVTY 91
DB 49 GLFLFSSLRADTQEKVRAVWVGSDELSCACPEGSREFDLNDVYVWQTSSEKTVVTVH 108
QY 92 LPYKSPGINVDSYKRGHLSLDSMKQGNFSLYLNKVTPODTQETCRVFMNTATLVKI 151
DB 109 IPQNSSLENVDSRYNRALMSVAGMLRGDFSLRFLNVTPODEQKHFCLV-LSQSLGFQEV 167
QY 152 LEEVRLVAANFSTPVISTSSNPGQ-ERTYTCMSKNGYPEPNLYWINTTDSLIDTA 210
DB 168 LSXEVTLHVAANFSPVVSAPH-PSQDELFTCTTSINGYPRPNVWINKTDSLLDQA 225
QY 211 LQNTVYLNKGLYDVISTLRPWTSGDVLCCVENVALHONITSISQAESTGNN- 266
DB 226 LQNDTVFLNMRGLYDVVSLRIARTPSVNIQCCIEVLLQNLTVGSQ---TGNDIGER 281
QY 267 ---TKPQETHNNEL---KVLVPVLAVLAAAFVSFIYRRTRPHRSYTGPKTV--QLEL 318
DB 282 DKITENPVSTGKNAATWSILAVLCLLVVVAIGWVCRDCLQH-SYAGAWAVSPETEL 340
QY 319 TDH 321
DB 341 TGH 343

RESULT 4

US-09-896-738-13
; Sequence 13, Application US/09896738
; Patent No. US20020165347A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Michael
; APPLICANT: Sullivan, John K.
; APPLICANT: Pang, Mei
; TITLE OF INVENTION: B7-Like Molecules and Uses Thereof
; FILE REFERENCE: 00-513-A
; CURRENT APPLICATION NUMBER: US/09/896,738
; CURRENT FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/215,645
; PRIOR FILING DATE: 2000-06-30
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-896-738-13

Query Match 35.5%; Score 599.5; DB 9; Length 302;
Best Local Similarity 46.2%; Pred. No. 3.8e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps 8;
QY 32 GLFLLLSLCAASAEVGVAMVGSNNVLSCLDPHRRHFNLSGLVYVWQIENPEVSVTY 91


```

Db      7  GLLFLFSSLRADTQEKVRAVAGSDVELSCACPEGSRPDLNDVYVYQTSKATVYTH 66
Qy      92  LPKSPGINVDSYKNGRGLSLDSMKQGNFSLYLNKVTPODTQEFTRVFMNTATELVKI 151
        67  IPQNSLEENVDSRYRRBALMSPAQMLRGDFSLRLFNVTPODQKFKCLV-LSQSLGFQEV 125
Qy      152  LEEVRLRVAANFSPFVITSSDSSNPGQ-ERTYTCMSKNGYEPNLYINTDNLIDTA 210
        126  LSEVETLVAANFSPVVSAPHS--PSODELFTCTCTINGYPRPNVYVINKTDSILDOA 183
Qy      211  LQNNVTYLNKGLYDVISTRLPMTSRGDLCCVENVALHONITSISOAESFTGN----- 266
        184  LQNDYFLNMRGLYDVSVTLRIARTPSVNIIGCCIEENVLLQOULTVGSQ---TGNDIGER 239
Qy      267  ---TKNPOETHNNEL---KVLVPLAVLAAAFVSFIYRTRPRRSYTGPKTV--QDEL 318
        240  DKITENPVSTGEKNAATWISILAVLCILVVAVAIGVCGDRCLQH-SYAGAAVSPETEL 298
Qy      319  TDH 321
        99  TGH 301

```

```

RESULT 5
US-09-955-866-7
; Sequence 7, Application US/09955866
; Patent No. US20020107363A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Michael
; APPLICANT: Sullivan, John K.
; APPLICANT: Holst, Paige
; APPLICANT: Yoshinaga, Steven Kiyoshi
; TITLE OF INVENTION: B7-Like Polypeptides and Uses Thereof
; FILE REFERENCE: 00, 759-A
; CURRENT APPLICATION NUMBER: US/09/955, 866
; PRIOR FILING DATE: 2001-09-19
; PRIOR APPLICATION NUMBER: 60/233, 867
; PRIOR FILING DATE: 2000-09-20
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-866-7

```

```

Query Match      35.5%; Score 599.5; DB 10; Length 302;
Best Local Similarity 46.2%; Pred. No. 3.8e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps 8;

```

```

Qy      32  GLLFLFSSLRADTQEKVRAVAGSDVELSCACPEGSRPDLNDVYVYQTSKATVYTH 91
        7  GLLFLFSSLRADTQEKVRAVAGSDVELSCACPEGSRPDLNDVYVYQTSKATVYTH 66
Qy      92  LPKSPGINVDSYKNGRGLSLDSMKQGNFSLYLNKVTPODTQEFTRVFMNTATELVKI 151
        67  IPQNSLEENVDSRYRRBALMSPAQMLRGDFSLRLFNVTPODQKFKCLV-LSQSLGFQEV 125
Qy      152  LEEVRLRVAANFSPFVITSSDSSNPGQ-ERTYTCMSKNGYEPNLYINTDNLIDTA 210
        126  LSEVETLVAANFSPVVSAPHS--PSODELFTCTCTINGYPRPNVYVINKTDSILDOA 183
Qy      211  LQNNVTYLNKGLYDVISTRLPMTSRGDLCCVENVALHONITSISOAESFTGN----- 266
        184  LQNDYFLNMRGLYDVSVTLRIARTPSVNIIGCCIEENVLLQOULTVGSQ---TGNDIGER 239
Qy      267  ---TKNPOETHNNEL---KVLVPLAVLAAAFVSFIYRTRPRRSYTGPKTV--QDEL 318
        240  DKITENPVSTGEKNAATWISILAVLCILVVAVAIGVCGDRCLQH-SYAGAAVSPETEL 298
Qy      319  TDH 321
        99  TGH 301

```

```

Db      299  TGH 301
Qy      32  GLLFLFSSLRADTQEKVRAVAGSDVELSCACPEGSRPDLNDVYVYQTSKATVYTH 91
        7  GLLFLFSSLRADTQEKVRAVAGSDVELSCACPEGSRPDLNDVYVYQTSKATVYTH 66
Qy      92  LPKSPGINVDSYKNGRGLSLDSMKQGNFSLYLNKVTPODTQEFTRVFMNTATELVKI 151
        67  IPQNSLEENVDSRYRRBALMSPAQMLRGDFSLRLFNVTPODQKFKCLV-LSQSLGFQEV 125
Qy      152  LEEVRLRVAANFSPFVITSSDSSNPGQ-ERTYTCMSKNGYEPNLYINTDNLIDTA 210
        126  LSEVETLVAANFSPVVSAPHS--PSODELFTCTCTINGYPRPNVYVINKTDSILDOA 183
Qy      211  LQNNVTYLNKGLYDVISTRLPMTSRGDLCCVENVALHONITSISOAESFTGN----- 266
        184  LQNDYFLNMRGLYDVSVTLRIARTPSVNIIGCCIEENVLLQOULTVGSQ---TGNDIGER 239
Qy      267  ---TKNPOETHNNEL---KVLVPLAVLAAAFVSFIYRTRPRRSYTGPKTV--QDEL 318
        240  DKITENPVSTGEKNAATWISILAVLCILVVAVAIGVCGDRCLQH-SYAGAAVSPETEL 298
Qy      319  TDH 321
        299  TGH 301

```

```

Query Match      35.5%; Score 598.5; DB 9; Length 302;
Best Local Similarity 46.2%; Pred. No. 4.5e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps 8;

```

```

RESULT 6
US-09-915-789A-18
; Sequence 18, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
; TITLE OF INVENTION: MOLECULES
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915, 789A
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220, 991
; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-915-789A-18

```

```

Query Match      35.5%; Score 598.5; DB 10; Length 343;

```

Best Local Similarity 46.2%; Pred. No. 5.2e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps 8;

```
QY 32 GLFLLLSLCAASAEYGVAMVGNVLSCLDPHRRHFNLSGLYVYQIENPEVSVTVY 91
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 48 GLFLFLSSLRADTQKEVRAMVGSDELSCACPEGSFRDLNDVVYVQTSSEKTVVTH 107
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 92 LPYKSPGINVDSYKNGRHLSDSKQGNFSLYLKNVTPQDTQETCRVFMNATATLVKI 151
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 108 IPQNSSLENVDSRYNRALMSPAGMLRGDFSLRFLFNVTPODEQKPHCLV-LSQSLGFQEV 166
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 152 LEEVVLRAANFSTPVISTDSSNPGO-ERTYTCMSKNGYEPNLYWINTDNLSDIDA 210
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 167 LSEVTLHVAANFSPVVSAPHIS--PSQDELFTCTTSINGYPRPNVYWKINDNLLDOA 224
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 211 LQNTVYLNKGLYDVISTRLPWTSGDVLCCVENVALHQNITISQAESTGNN---- 266
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 225 LQNDTVFLNMRGLYDVSVLRARTSPSVNIGCCIEVLLQQNLTVGSQ---TGNDIGER 280
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 267 ----TKNPQETHNNEL---KVLVPVLAVLAAAFVSFIIYRTRPHRSYTGPKTV--QLEL 318
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 281 DKITENPVSTGKNAATWSILAVCLLVVVAIGAIVGVCRCRCLQH-SYAGAWAVSPETEL 339
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 319 TDH 321
||| |||
Db 340 TGH 342
```

RESULT 8

US-09-764-853-810
; Sequence 810, Application US/09764853
; Patent No. US20020090672A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PJ206
; CURRENT APPLICATION NUMBER: US/09/764,853
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 810
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-853-810

Query Match 35.5%; Score 598.5; DB 10; Length 345;
Best Local Similarity 46.2%; Pred. No. 5.2e-37;
Matches 140; Conservative 40; Mismatches 102; Indels 21; Gaps 8;

```
QY 32 GLFLLLSLCAASAEYGVAMVGNVLSCLDPHRRHFNLSGLYVYQIENPEVSVTVY 91
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 50 GLFLFLSSLRADTQKEVRAMVGSDELSCACPEGSFRDLNDVVYVQTSSEKTVVTH 109
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 92 LPYKSPGINVDSYKNGRHLSDSKQGNFSLYLKNVTPQDTQETCRVFMNATATLVKI 151
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 110 IPQNSSLENVDSRYNRALMSPAGMLRGDFSLRFLFNVTPODEQKPHCLV-LSQSLGFQEV 168
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 152 LEEVVLRAANFSTPVISTDSSNPGO-ERTYTCMSKNGYEPNLYWINTDNLSDIDA 210
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 169 LSEVTLHVAANFSPVVSAPHIS--PSQDELFTCTTSINGYPRPNVYWKINDNLLDOA 226
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 211 LQNTVYLNKGLYDVISTRLPWTSGDVLCCVENVALHQNITISQAESTGNN---- 266
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 227 LQNDTVFLNMRGLYDVSVLRARTSPSVNIGCCIEVLLQQNLTVGSQ---TGNDIGER 282
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 267 ----TKNPQETHNNEL---KVLVPVLAVLAAAFVSFIIYRTRPHRSYTGPKTV--QLEL 318
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 283 DKITENPVSTGKNAATWSILAVCLLVVVAIGAIVGVCRCRCLQH-SYAGAWAVSPETEL 341
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 319 TDH 321
||| |||
```

Db 342 TGH 344

RESULT 9

US-09-910-174A-7
; Sequence 7, Application US/09910174A
; Patent No. US20020106730A1
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Fraser, Christopher C.
; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1el Members of the B7
; TITLE OF INVENTION: Family and Uses Thereof
; FILE REFERENCE: 35800/236924
; CURRENT APPLICATION NUMBER: US/09/910,174A
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 09/620,461
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-910-174A-7

Query Match 35.2%; Score 594.5; DB 10; Length 309;
Best Local Similarity 46.0%; Pred. No. 9e-37;
Matches 139; Conservative 41; Mismatches 101; Indels 21; Gaps 8;

```
QY 32 GLFLLLSLCAASAEYGVAMVGNVLSCLDPHRRHFNLSGLYVYQIENPEVSVTVY 91
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 7 GLFLFLSSLRADTQKEVRAMVGSDELSCACPEGSFRDLNDVVYVQTSSEKTVVTH 66
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 92 LPYKSPGINVDSYKNGRHLSDSKQGNFSLYLKNVTPQDTQETCRVFMNATATLVKI 151
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 67 IPQNSSLENVDSRYNRALMSPAGMLRGDFSLRFLFNVTPODEQKPHCLV-LSQSLGFQEV 125
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 152 LEEVVLRAANFSTPVISTDSSNPGO-ERTYTCMSKNGYEPNLYWINTDNLSDIDA 210
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 126 LSEVTLHVAANFSPVVSAPHIS--PSQDELFTCTTSINGYPRPNVYWKINDNLLDOA 183
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 211 LQNTVYLNKGLYDVISTRLPWTSGDVLCCVENVALHQNITISQAESTGNN---- 266
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 184 LQNDTVFLNMRGLYDVSVLRARTSPSVNIGCCIEVLLQQNLTVGSQ---TGNDIGER 239
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 267 ----TKNPQETHNNEL---KVLVPVLAVLAAAFVSFIIYRTRPHRSYTGPKTV--QLEL 318
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 240 DKITENPVSTGKNAATWSILAVCLLVVVAIGAIVGVCRCRCLQH-SYAGAWAVSPETEL 298
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 319 TD 320
||| |||
Db 299 TE 300
```

RESULT 10

US-09-915-789A-11
; Sequence 11, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
; TITLE OF INVENTION: MOLECULES
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 241
; TYPE: PRT


```
QY 139 ---RVEMNTATELVKLEEVRLVAAVFSTVISTDSN--PGQERTYCMKNGYPE 193
DB 124 VSTRDGSAA-----VSLQVAAPYSKSMTEBPKXDRPEDYTTITSSYQGYPE 173
QY 194 PULYINTTNSLIDTALONNTVYINKLGLYDVISTLRPLWTSRGDVLCCVENVAL---- 249
DB 174 AEVFWQDGGVPL--TGAVTTSQMANEGCLFDVHSVLARVLGANTYSCIVRNPLVQODA 231
QY 250 HONITSISQAESFTGNNTKNPOETHNNELKVLVPLVLAIAAAAFV 294
DB 232 HXSVTTTGGPMTF-----PPEALMWTVGSLVCIALLVLAFAV 269

RESULT 13
US-09-896-738-14
; Sequence 14, Application US/09896738
; Patent No. US20020165347A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Michael
; APPLICANT: Sullivan, John K.
; INVENTOR: Pang, Wei
; INVENTOR: OF INVENTION: B7-Like Molecules and Uses Thereof
; FILE REFERENCE: 00-513-A
; CURRENT APPLICATION NUMBER: US/09/896,738
; CURRENT FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/215,645
; PRIOR FILING DATE: 2000-06-30
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (233)
; OTHER INFORMATION: "Xaa" can be any naturally occurring amino acid
US-09-896-738-14

Query Match 14.6%; Score 247; DB 9; Length 316;
Best Local Similarity 30.5%; Pred. No. 2.9e-11;
Matches 87; Conservative 42; Mismatches 118; Indels 38; Gaps 9;

QY 21 LHVSSGFFSGGL-LELLLSLCAASATEVGAWSNVVLSCTDIPRRHNNLSGLVYTW 79
DB 12 VHWG---AALGALMFCITLGALEVQPEDPVVALVGTDTATLCCSFPSPGSLAQLNLIW 67
QY 80 QLENPEVATYVLPYKSPGINVDSYKRGHLSLDSMKQGNFSLYLVKVTQDDQOETFC- 138
DB 8 QLTDTKQVHSE---AEGQDGSAYANRTALFPDLAQGNASLRLQVRVADGSGFTCF 123
QY 139 ---RVEMNTATELVKLEEVRLVAAVFSTVISTDSN--PGQERTYCMKNGYPE 193
DB 124 VSTRDGSAA-----VSLQVAAPYSKSMTEBPKXDRPEDYTTITSSYQGYPE 173
QY 194 PULYINTTNSLIDTALONNTVYINKLGLYDVISTLRPLWTSRGDVLCCVENVAL---- 249
DB 174 AEVFWQDGGVPL--TGAVTTSQMANEGCLFDVHSVLARVLGANTYSCIVRNPLVQODA 231
QY 250 HONITSISQAESFTGNNTKNPOETHNNELKVLVPLVLAIAAAAFV 294
DB 232 HXSVTTTGGPMTF-----PPEALMWTVGSLVCIALLVLAFAV 269

RESULT 14
US-09-978-697-137
; Sequence 137, Application US/09978697
; Patent No. US20020169284A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
```

```
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gueney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC27
CURRENT APPLICATION NUMBER: US/09/978,697
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/07450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/07632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/07641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/07649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
```

;; PRIOR FILING DATE: 1998-03-30
;; PRIOR APPLICATION NUMBER: 60/079923
;; PRIOR FILING DATE: 1998-03-30
;; PRIOR APPLICATION NUMBER: 60/080105
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080107
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080165
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080194
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080327
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080328
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080333
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080334
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/081070
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081049
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081071
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081195
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081203
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081229
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081955
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081817
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081819
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081952
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081838
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/082568
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082569
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082704
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082804
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082700
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082797
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082796
;; PRIOR FILING DATE: 1998-04-23
;; PRIOR APPLICATION NUMBER: 60/083336
;; PRIOR FILING DATE: 1998-04-27
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/083392
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083495
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083496
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083499
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083545
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083554
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083558
;; PRIOR FILING DATE: 1998-04-29

;; PRIOR APPLICATION NUMBER: 60/083559
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083500
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083742
;; PRIOR FILING DATE: 1998-04-30
;; PRIOR APPLICATION NUMBER: 60/084366
;; PRIOR FILING DATE: 1998-05-05
;; PRIOR APPLICATION NUMBER: 60/084414
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084441
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084637
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084639
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084598
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-5-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 14.6%; Score 247; DB 9; Length 316;
Best Local Similarity 30.5%; Pred. No. 2.9e-11;
Matches 87; Conservative 42; Mismatches 118; Indels 38; Gaps 9;

QY 21 LHVSSGFFSGLG-LFLLLSLCAASAETEVGAMGVNSVVLSCIDPHRRHFNLSGLYVW 79
Db 12 VHVG-----AALGALWFCLTGALFVQVPEDPVVALVGTDTLCCSFSPGFSLAQLNLIW 67
QY 80 QIENPEVSVTYIYPYKSPGINDVSDSKNGHLSLDSMKQGNFSLYKNTVTPQTOEFTC- 138
Db 68 QLTDTKQLVHSF-----AEGQDQGSAYANRTALPFDLLAQGNASRLQRVRVADEGSFTCF 123
QY 139 ---RVFNMNTATELVKILEEVVRLRVANFSTPVISTSDSN--PGQERTVTCMSKNGYPE 193
Db 124 VSIKDFGSA-----VSIQVAAAPYKPSMTLEPNKDLRPGGTVTITCSYQGYPE 173
QY 194 PNLYWINTDNLIDTALQNNVTYLNKLGHYDVISTLRPLWTSRGDVLCCVENVAL---- 249
Db 174 AEVFMQDQGVFL--TCNVTTTQMANEQGLFDVHVSVLRVVLGANGTVSCLVRNPVLQQA 231
QY 250 HONITSISQAESFTGNNTKPNQPOETHNNELKVLVPLVLAALAAAFV 294
Db 232 HXSVTITGQPMTF-----PPEALWTVTVGLSVCLIALVALAFV 269

RESULT 15
US-09-978-192A-137
Sequence 137, Application US/09978192A
Patent No. US2002017553A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gutney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C9
CURRENT APPLICATION NUMBER: US/09/978, 192A
PRIOR FILING DATE: 2001-10-15-585
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/07450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496

1 PRIOR FILING DATE: 1998-04-29
2 PRIOR APPLICATION NUMBER: 60/083499
3 PRIOR FILING DATE: 1998-04-29
4 PRIOR APPLICATION NUMBER: 60/083545
5 PRIOR FILING DATE: 1998-04-29
6 PRIOR APPLICATION NUMBER: 60/083554
7 PRIOR FILING DATE: 1998-04-29
8 PRIOR APPLICATION NUMBER: 60/083558
9 PRIOR FILING DATE: 1998-04-29
10 PRIOR APPLICATION NUMBER: 60/083559
11 PRIOR FILING DATE: 1998-04-29
12 PRIOR APPLICATION NUMBER: 60/083500
13 PRIOR FILING DATE: 1998-04-29
14 PRIOR APPLICATION NUMBER: 60/083742
15 PRIOR FILING DATE: 1998-04-30
16 PRIOR APPLICATION NUMBER: 60/084366
17 PRIOR FILING DATE: 1998-05-05
18 PRIOR APPLICATION NUMBER: 60/084414
19 PRIOR FILING DATE: 1998-05-06
20 PRIOR APPLICATION NUMBER: 60/084441
21 PRIOR FILING DATE: 1998-05-06
22 PRIOR APPLICATION NUMBER: 60/084637
23 PRIOR FILING DATE: 1998-05-07
24 PRIOR APPLICATION NUMBER: 60/084639
25 PRIOR FILING DATE: 1998-05-07
26 PRIOR APPLICATION NUMBER: 60/084640
27 PRIOR FILING DATE: 1998-05-07
28 PRIOR APPLICATION NUMBER: 60/084598
29 PRIOR FILING DATE: 1998-05-07
30 PRIOR APPLICATION NUMBER: 60/084600
31 PRIOR FILING DATE: 1998-05-07
32 PRIOR APPLICATION NUMBER: 60/084627
33 PRIOR FILING DATE: 1998-05-07
34 PRIOR APPLICATION NUMBER: 60/084643
35 PRIOR FILING DATE: 1998-05-07
36 PRIOR APPLICATION NUMBER: 60/085339
37 PRIOR FILING DATE: 1998-05-13
38 PRIOR APPLICATION NUMBER: 60/085338
39 PRIOR FILING DATE: 1998-05-13
40 PRIOR APPLICATION NUMBER: 60/085323
41 PRIOR FILING DATE: 1998-05-13
42 PRIOR APPLICATION NUMBER: 60/085582
43 PRIOR FILING DATE: 1998-05-15
44 PRIOR APPLICATION NUMBER: 60/085700
45 PRIOR FILING DATE: 1998-05-15
46 PRIOR APPLICATION NUMBER: 60/085689
47 PRIOR FILING DATE: 1998-05-15
48 PRIOR APPLICATION NUMBER: 60/085579
49 PRIOR FILING DATE: 1998-05-15
50 PRIOR APPLICATION NUMBER: 60/085580
51 PRIOR FILING DATE: 1998-05-15
52 PRIOR APPLICATION NUMBER: 60/085573
53 PRIOR FILING DATE: 1998-05-15
54 PRIOR APPLICATION NUMBER: 60/085704
55 PRIOR FILING DATE: 1998-05-15
56 PRIOR APPLICATION NUMBER: 60/085697

Query Match 14.6%; Score 247; DB 9; Length 316;
Best Local Similarity 30.5%; Pred. No. 2.9e-11;
Matches 87; Conservative 42; Mismatches 118; Indels 38; Gaps 9;
Qy 21 LHVSSGFFSGLG-LFLLILLSSLCASAETEYGMVGSNVVLSCIDPHRHFNLSGLYYVW 79
Db 12 VHVVG----AALGALVCLTGLAEVQVPEPVPVALVGTDTATCCSFSPGFGSLAQLNLIW 67
Qy 80 QIENPEVSVTYLTPYKSPGINVDSSYKNGHLSLDSMKGNFSLYLKNTVPDQTQBEFTC- 138
Db 68 QLTDTKQLVHSF-----AEGDQGSAYANRTALFPDLLAQGNASLRQVRVADEGSFTCF 123
Qy 139 ---RVFMNTATELVKILEEVVRLVRVANFSTPVISTDSSN--PQOERTYTCMKNGYPE 193
Db 124 VSIKDFGSA-----VSLQVAAPYKSPMTLEPNKDLRPGDVTITCSSYQGYPE 173

Qy 194 PNLXWINTTNSLIDTALQNNTVLNLKGLDYVISTLRLPWTSRGDVLCCVENVAL---- 249
Db 174 AEVFWQDQGVPL--TGNVTTISQMANEQGLFDVHSVLRVVLGANGTYSCLVRNPVLQODA 231
Qy 250 HONITISQAESFTGNNTKNPOETHNNELKVLVPVLAVLAAAFV 294
Db 232 HXSVTITQPMWF-----PPEALWVTVGLSVCLIALVALAFV 269
Search completed: December 18, 2002, 07:08:43
Job time : 52.7697 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 18, 2002, 07:06:12 ; Search time 46.3033 Seconds
(without alignments)
104.267 Million cell updates/sec

Title: US-09-728-420C-12
Perfect score: 1495
Sequence: 1 MRUGSPGLFLFSSLRADT.....VAVATGCRDRCLQHSYAG 288

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 106657 seqs, 16763532 residues

Number of hits satisfying chosen parameters: 106657

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA.*
1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pdp.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pdp.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pdp.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pdp.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pdp.*
6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pdp.*
7: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pdp.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pdp.*
9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pdp.*
10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pdp.*
11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pdp.*
12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pdp.*
13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pdp.*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pdp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1495	100.0	302	9	US-09-896-738-13
2	1495	100.0	302	10	US-09-955-866-7
3	1495	100.0	309	10	US-09-910-174A-7
4	1494	99.9	302	9	US-09-915-789A-18
5	1494	99.9	343	10	US-09-764-853-630
6	1494	99.9	345	10	US-09-764-853-810
7	1490	99.7	302	10	US-09-789-561-136
8	1490	99.7	344	9	US-09-764-853-812
9	1248	83.5	241	9	US-09-915-789A-11
10	588.5	39.4	322	10	US-09-910-174A-29
11	294.5	19.7	316	9	US-09-915-789A-1
12	294.5	19.7	316	10	US-09-875-338-13
13	294.5	19.7	316	10	US-09-910-174A-24
14	293.5	19.6	316	10	US-09-875-338-11
15	292.5	19.6	316	9	US-09-915-789A-3
16	290.5	19.4	316	9	US-09-978-295A-137
17	290.5	19.4	316	9	US-09-896-738-14
18	290.5	19.4	316	9	US-09-978-697-137
19	290.5	19.4	316	9	US-09-978-192A-137

20	290.5	19.4	316	10	US-09-789-561-135	Sequence 135, App
21	290.5	19.4	316	10	US-09-955-866-8	Sequence 8, Appl
22	290.5	19.4	316	12	US-10-052-586-54	Sequence 54, Appl
23	274	18.3	315	10	US-09-910-174A-28	Sequence 28, Appl
24	273.5	18.3	534	10	US-09-875-338-7	Sequence 7, Appl
25	273.5	18.3	698	10	US-09-875-338-9	Sequence 9, Appl
26	271	18.1	387	10	US-09-789-561-156	Sequence 156, App
27	247	16.5	216	10	US-09-789-561-158	Sequence 158, App
28	244	16.3	215	9	US-09-915-789A-20	Sequence 20, Appl
29	185	12.4	329	10	US-09-303-040-6	Sequence 6, Appl
30	185	12.4	329	10	US-09-303-040-6	Sequence 6, Appl
31	182	12.2	314	10	US-09-837-867A-21	Sequence 21, Appl
32	182	12.2	314	10	US-09-837-867A-13	Sequence 13, Appl
33	179	12.0	526	9	US-09-896-738-19	Sequence 19, Appl
34	179	12.0	526	10	US-09-910-174A-9	Sequence 9, Appl
35	179	12.0	526	10	US-09-955-866-13	Sequence 13, Appl
36	165.5	11.1	323	9	US-09-896-738-11	Sequence 11, Appl
37	165.5	11.1	323	9	US-09-915-789A-16	Sequence 16, Appl
38	165.5	11.1	323	10	US-09-955-866-5	Sequence 5, Appl
39	165.5	11.1	329	8	US-08-592-711-4	Sequence 4, Appl
40	165.5	11.1	329	10	US-09-837-867A-23	Sequence 23, Appl
41	164.5	11.0	288	8	US-08-592-711-2	Sequence 2, Appl
42	164.5	11.0	288	9	US-09-896-738-10	Sequence 10, Appl
43	164.5	11.0	288	9	US-09-915-789A-15	Sequence 15, Appl
44	164.5	11.0	288	10	US-09-772-102-14	Sequence 14, Appl
45	164.5	11.0	288	10	US-09-837-867A-19	Sequence 19, Appl

ALIGNMENTS

RESULT 1
US-09-896-738-13
Sequence 13, Application US/09896738
Patent No. US20020165347A1
GENERAL INFORMATION:
APPLICANT: Fox, Michael
APPLICANT: Sullivan, John K.
APPLICANT: Fang, Mei
TITLE OF INVENTION: B7-Like Molecules and Uses Thereof
FILE REFERENCE: 00-513-A
CURRENT APPLICATION NUMBER: US/09/896,738
CURRENT FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: 60/215,645
PRIOR FILING DATE: 2000-06-30
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13
LENGTH: 302
TYPE: PRT
ORGANISM: Homo sapiens
US-09-896-738-13

Query Match 100.0%; Score 1495; DB 9; Length 302;
Best Local Similarity 100.0%; Pred. No. 6.5e-118;
Matches 288; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRUGSPGLFLFSSLRADTQEKYRVAWGVDELSCAPESGRFDLNDVYVYWTSESK 60
DB 1 MRUGSPGLFLFSSLRADTQEKYRVAWGVDELSCAPESGRFDLNDVYVYWTSESK 60
QY 61 TVVTYHIPPONSSLENDVSRNRRLMSPAGMLRGDFSLRFVNTPODEQKFCVLVSGSL 120
DB 61 TVVTYHIPPONSSLENDVSRNRRLMSPAGMLRGDFSLRFVNTPODEQKFCVLVSGSL 120
QY 121 GPEVLSVETLHVANESVPVVSAPHSPQDELFTCTCSINGYRPNVYVYWKNDNSL 180
DB 121 GPEVLSVETLHVANESVPVVSAPHSPQDELFTCTCSINGYRPNVYVYWKNDNSL 180
QY 181 DQALQNDYFLNMRGLYDVVSYLARTPSVNIIGCCIEVNLQQLTVGSGQNDIGERD 240
DB 181 DQALQNDYFLNMRGLYDVVSYLARTPSVNIIGCCIEVNLQQLTVGSGQNDIGERD 240

QY 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288
Db 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288

RESULT 2

US-09-955-866-7
; Sequence 7, Application US/09955866
; Patent No. US20020107363A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Michael
; APPLICANT: Sullivan, John K.
; APPLICANT: Holst, Paige
; APPLICANT: Yoshinaga, Steven Kiyoshi
; TITLE OF INVENTION: B7-Like Polypeptides and Uses Thereof
; FILE REFERENCE: 00,759-A
; CURRENT APPLICATION NUMBER: US/09/955,866
; CURRENT FILING DATE: 2001-09-19
; PRIOR APPLICATION NUMBER: 60/233,867
; PRIOR FILING DATE: 2000-09-20
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 7
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-866-7

Query Match 100.0%; Score 1495; DB 10; Length 302;
Best Local Similarity 100.0%; Pred. No. 6.5e-118;
Matches 288; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRLGSPGLLFLFSSLRADTQKEVVRAMVGSDELSCACPEGRSFRDLNDVYVWQTSSEK 60
Db 1 MRLGSPGLLFLFSSLRADTQKEVVRAMVGSDELSCACPEGRSFRDLNDVYVWQTSSEK 60
QY 61 TVVYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRFLNVTPODEKHFCLVLSQSL 120
Db 61 TVVYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRFLNVTPODEKHFCLVLSQSL 120
QY 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYWKNTDLSL 180
Db 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYWKNTDLSL 180
QY 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQQNLTVGSGTGNIGERD 240
Db 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQQNLTVGSGTGNIGERD 240
QY 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288
Db 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288

RESULT 3

US-09-910-174A-7
; Sequence 7, Application US/09910174A
; Patent No. US20020106730A1
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Fraser, Christopher C.
; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1 Members of the B7
; FILE REFERENCE: 35800/236924
; CURRENT APPLICATION NUMBER: US/09/910,174A
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 09/620,461
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 309
; TYPE: PRT

; ORGANISM: Homo sapiens
US-09-910-174A-7
Query Match 100.0%; Score 1495; DB 10; Length 309;
Best Local Similarity 100.0%; Pred. No. 6.7e-118;
Matches 288; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRLGSPGLLFLFSSLRADTQKEVVRAMVGSDELSCACPEGRSFRDLNDVYVWQTSSEK 60
Db 1 MRLGSPGLLFLFSSLRADTQKEVVRAMVGSDELSCACPEGRSFRDLNDVYVWQTSSEK 60
QY 61 TVVYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRFLNVTPODEKHFCLVLSQSL 120
Db 61 TVVYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRFLNVTPODEKHFCLVLSQSL 120
QY 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYWKNTDLSL 180
Db 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYWKNTDLSL 180
QY 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQQNLTVGSGTGNIGERD 240
Db 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQQNLTVGSGTGNIGERD 240
QY 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288
Db 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288

RESULT 4

US-09-915-789A-18
; Sequence 18, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-915-789A-18

Query Match 99.9%; Score 1494; DB 9; Length 302;
Best Local Similarity 99.7%; Pred. No. 7.9e-118;
Matches 287; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRLGSPGLLFLFSSLRADTQKEVVRAMVGSDELSCACPEGRSFRDLNDVYVWQTSSEK 60
Db 1 MRLGSPGLLFLFSSLRADTQKEVVRAMVGSDELSCACPEGRSFRDLNDVYVWQTSSEK 60
QY 61 TVVYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRFLNVTPODEKHFCLVLSQSL 120
Db 61 TVVYHIPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRFLNVTPODEKHFCLVLSQSL 120
QY 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYWKNTDLSL 180
Db 121 GFQEVLSVEVTLHVAANFSPVVSAPHSPSQDELFTTCTTSINGYPRPNVYWKNTDLSL 180
QY 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQQNLTVGSGTGNIGERD 240
Db 181 DOALQNDTVFLNMRGLYDVVSVLRARTSPSVNIGCCIEINVLLQQNLTVGSGTGNIGERD 240
QY 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288
Db 241 KITENPVSTGKNAATWSILAVLCLLVVAVVAIGWVCRDRCLQHSYAG 288

RESULT 5
 US-09-764-853-630
 ; Sequence 630, Application US/09764853
 ; Patent No. US20020090672A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 ; FILE REFERENCE: P206
 ; CURRENT APPLICATION NUMBER: US/09/764,853
 ; CURRENT FILING DATE: 2001-01-17
 ; Prior application data removed - consult PALM or file wrapper
 ; NUMBER OF SEQ ID NOS: 939
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 630
 ; LENGTH: 343
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens.
 US-09-764-853-630

Query Match 99.9%; Score 1494; DB 10; Length 343;
 Best Local Similarity 99.7%; Pred. No. 9,2e-118;
 Matches 287; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRLGSPGLFLFLFSSLRADTQKEVRAMVGSDELSCACPEGSREFDLNDVYVYVWQTSSEK 60
 DB 42 MRLGSPGLFLFLFSSLRADTQKEVRAMVGSDELSCACPEGSREFDLNDVYVYVWQTSSEK 101
 QY 61 TVVYTHIPONSSLENDVSRKRRALMSPAGMLRGDPSLRLEFVTPQDEKFKHCLVLSQSL 120
 DB 102 TVVYTHIPONSSLENDVSRKRRALMSPAGMLRGDPSLRLEFVTPQDEKFKHCLVLSQSL 161
 QY 121 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPPVNYINKTDNSL 180
 DB 162 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPPVNYINKTDNSL 221
 QY 181 DQALQNDTVFLNMRGLYDVVSVLRIARTPSVNI GCCIENVLQQNLTVGSQTGNDIGERD 240
 DB 222 DQALQNDTVFLNMRGLYDVVSVLRIARTPSVNI GCCIENVLQQNLTVGSQTGNDIGERD 281
 QY 241 KITEMPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 288
 DB 282 KITEMPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 329

RESULT 6
 US-09-764-853-810
 ; Sequence 810, Application US/09764853
 ; Patent No. US20020090672A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 ; FILE REFERENCE: P206
 ; CURRENT APPLICATION NUMBER: US/09/764,853
 ; CURRENT FILING DATE: 2001-01-17
 ; Prior application data removed - consult PALM or file wrapper
 ; NUMBER OF SEQ ID NOS: 939
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 810
 ; LENGTH: 345
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-764-853-810

Query Match 99.9%; Score 1494; DB 10; Length 345;
 Best Local Similarity 99.7%; Pred. No. 9.3e-118;
 Matches 287; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRLGSPGLFLFLFSSLRADTQKEVRAMVGSDELSCACPEGSREFDLNDVYVYVWQTSSEK 60
 DB 44 MRLGSPGLFLFLFSSLRADTQKEVRAMVGSDELSCACPEGSREFDLNDVYVYVWQTSSEK 103
 QY 61 TVVYTHIPONSSLENDVSRKRRALMSPAGMLRGDPSLRLEFVTPQDEKFKHCLVLSQSL 120

DB 104 TVVYTHIPONSSLENDVSRKRRALMSPAGMLRGDPSLRLEFVTPQDEKFKHCLVLSQSL 163
 QY 121 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPPVNYINKTDNSL 180
 DB 164 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPPVNYINKTDNSL 223
 QY 181 DQALQNDTVFLNMRGLYDVVSVLRIARTPSVNI GCCIENVLQQNLTVGSQTGNDIGERD 240
 DB 224 DQALQNDTVFLNMRGLYDVVSVLRIARTPSVNI GCCIENVLQQNLTVGSQTGNDIGERD 283
 QY 241 KITEMPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 288
 DB 284 KITEMPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 331

RESULT 7
 US-09-789-561-136
 ; Sequence 136, Application US/09789561
 ; Patent No. US20020064818A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ni et al.
 ; TITLE OF INVENTION: 52 Human secreted proteins
 ; FILE REFERENCE: P2043p1
 ; CURRENT APPLICATION NUMBER: US/09/789,561
 ; CURRENT FILING DATE: 2001-02-22
 ; PRIOR APPLICATION NUMBER: PCF/US00/24008
 ; PRIOR FILING DATE: 2000-08-31
 ; PRIOR APPLICATION NUMBER: 60/152,317
 ; PRIOR FILING DATE: 1999-09-03
 ; PRIOR APPLICATION NUMBER: 60/152,315
 ; PRIOR FILING DATE: 1999-09-03
 ; NUMBER OF SEQ ID NOS: 194
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 136
 ; LENGTH: 302
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: SITE
 ; LOCATION: (128)
 ; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
 US-09-789-561-136

Query Match 99.7%; Score 1490; DB 10; Length 302;
 Best Local Similarity 99.7%; Pred. No. 1.7e-117;
 Matches 287; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRLGSPGLFLFLFSSLRADTQKEVRAMVGSDELSCACPEGSREFDLNDVYVYVWQTSSEK 60
 DB 1 MRLGSPGLFLFLFSSLRADTQKEVRAMVGSDELSCACPEGSREFDLNDVYVYVWQTSSEK 60
 QY 61 TVVYTHIPONSSLENDVSRKRRALMSPAGMLRGDPSLRLEFVTPQDEKFKHCLVLSQSL 120
 DB 61 TVVYTHIPONSSLENDVSRKRRALMSPAGMLRGDPSLRLEFVTPQDEKFKHCLVLSQSL 120
 QY 121 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPPVNYINKTDNSL 180
 DB 121 GFOEVLSEVTLTHVAANFSVPVVSAPHSPODELFTCTCSINGYRPPVNYINKTDNSL 180
 QY 181 DQALQNDTVFLNMRGLYDVVSVLRIARTPSVNI GCCIENVLQQNLTVGSQTGNDIGERD 240
 DB 181 DQALQNDTVFLNMRGLYDVVSVLRIARTPSVNI GCCIENVLQQNLTVGSQTGNDIGERD 240
 QY 241 KITEMPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 288
 DB 241 KITEMPVSTGEKNAATWSILAVCLLVVAVAI GWVCRDRCLOHSHYAG 288

RESULT 8
 US-09-764-853-812
 ; Sequence 812, Application US/09764853
 ; Patent No. US20020090672A1

FILE REFERENCE: 07039-219001
CURRENT APPLICATION NUMBER: US/09/915.789A
CURRENT FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: US 60/220,991
PRIOR FILING DATE: 2000-07-27
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 316
TYPE: PRT
ORGANISM: Homo sapiens
US-09-915-789A-1

Query Match 19.7%; Score 294.5; DB 9; Length 316;
Best Local Similarity 31.1%; Pred. No. 1.6e-17;
Matches 93; Conservative 40; Mismatches 111; Indels 55; Gaps 11;

QY 2 RLGSFG-----LLFLFSLRADTQKEVRAMVSGVLSGCPBGSRPDLNDV 50
DB 4 RRGSPGMGVHVGALGALMFCITGALVQVPEDPVVALVGTDATLCCSFSPBPGSLAQL 63
QY 1 YVWQTSSEKTVVTHIPONSSLENVD--SRYNRALMSPAGMLRGDFSLRLFNVTPODE 108
DB 64 NLIWQLTDTKQLV-----HSFAEGDDGSAVANRTALFPDLAAGNASLRQRVRADE 117
QY 109 QKFHCLVLSQSIGFQEVLSVEVTLHVAANFVVPVVSAPHSPSQ-----DELFTCTGSI 163
DB 118 GSFTCFVSIRDFG-----SAAVSLQVAAAPYSKP--SMTLEPNKDLRPDGTVTITCSSYRG 170
QY 164 YPRPNVYW-----INKTDSLDDQALQNDTVFLNMRGLYDVVSUARIATPSVNIQCIE 218
DB 171 YPEAEVFWDDGGVPLTGAVTTTSQ-----MANQGLFDVHSVLRVVLGANGTYSCLVR 223
QY 219 NVLLQQLTVSGQTGNDIGERDKITENPVSTGEKNAATWSILAVCLIVVAVAIGWYC 277
DB 224 NPVLQDD-AHGSVT-----ITGQPMTFPPE--ALMVTVGLSVCLIALVALAFVC 270

RESULT 12
US-09-875-338-13
Sequence 13, Application US/09875338
Patent No. US20020095024A1
GENERAL INFORMATION:
APPLICANT: MIKESSEL, GLEN E.
APPLICANT: CHANG, HAN
APPLICANT: FINGER, JOSHUA N.
APPLICANT: YANG, GUCHEN
APPLICANT: LU, PIN
APPLICANT: ZHOU, XIA-DI
APPLICANT: PEACH, ROBERT
TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR
FILE REFERENCE: 3053-4071US2
CURRENT APPLICATION NUMBER: US/09/875.338
CURRENT FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 60/272,107
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 60/209,811
PRIOR FILING DATE: 2000-06-06
NUMBER OF SEQ ID NOS: 94
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 316
TYPE: PRT
ORGANISM: Homo sapiens
US-09-875-338-13

Query Match 19.7%; Score 294.5; DB 10; Length 316;
Best Local Similarity 31.1%; Pred. No. 1.6e-17;
Matches 93; Conservative 40; Mismatches 111; Indels 55; Gaps 11;
QY 2 RLGSFG-----LLFLFSLRADTQKEVRAMVSGVLSGCPBGSRPDLNDV 50
DB 4 RRGSPGMGVHVGALGALMFCITGALVQVPEDPVVALVGTDATLCCSFSPBPGSLAQL 63

DB 4 RRGSPGMGVHVGALGALMFCITGALVQVPEDPVVALVGTDATLCCSFSPBPGSLAQL 63
QY 51 YVWQTSSEKTVVTHIPONSSLENVD--SRYNRALMSPAGMLRGDFSLRLFNVTPODE 108
DB 64 NLIWQLTDTKQLV-----HSFAEGDDGSAVANRTALFPDLAAGNASLRQRVRADE 117
QY 109 QKFHCLVLSQSIGFQEVLSVEVTLHVAANFVVPVVSAPHSPSQ-----DELFTCTGSI 163
DB 118 GSFTCFVSIRDFG-----SAAVSLQVAAAPYSKP--SMTLEPNKDLRPDGTVTITCSSYRG 170
QY 164 YPRPNVYW-----INKTDSLDDQALQNDTVFLNMRGLYDVVSUARIATPSVNIQCIE 218
DB 171 YPEAEVFWDDGGVPLTGAVTTTSQ-----MANQGLFDVHSVLRVVLGANGTYSCLVR 223
QY 219 NVLLQQLTVSGQTGNDIGERDKITENPVSTGEKNAATWSILAVCLIVVAVAIGWYC 277
DB 224 NPVLQDD-AHGSVT-----ITGQPMTFPPE--ALMVTVGLSVCLIALVALAFVC 270

RESULT 13
US-09-910-174A-24
Sequence 24, Application US/09910174A
Patent No. US20020106730A1
GENERAL INFORMATION:
APPLICANT: Coyle, Anthony J.
APPLICANT: Frazer, Christopher C.
APPLICANT: Manning, Stephen
TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1 Members of the B7
FILE REFERENCE: 35800/236324
CURRENT APPLICATION NUMBER: US/09/910.174A
CURRENT FILING DATE: 2001-07-20
PRIOR APPLICATION NUMBER: US 09/620,461
PRIOR FILING DATE: 2000-07-20
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 24
LENGTH: 316
TYPE: PRT
ORGANISM: Homo sapiens
US-09-910-174A-24

Query Match 19.7%; Score 294.5; DB 10; Length 316;
Best Local Similarity 31.1%; Pred. No. 1.6e-17;
Matches 93; Conservative 40; Mismatches 111; Indels 55; Gaps 11;

QY 2 RLGSFG-----LLFLFSLRADTQKEVRAMVSGVLSGCPBGSRPDLNDV 50
DB 4 RRGSPGMGVHVGALGALMFCITGALVQVPEDPVVALVGTDATLCCSFSPBPGSLAQL 63
QY 51 YVWQTSSEKTVVTHIPONSSLENVD--SRYNRALMSPAGMLRGDFSLRLFNVTPODE 108
DB 64 NLIWQLTDTKQLV-----HSFAEGDDGSAVANRTALFPDLAAGNASLRQRVRADE 117
QY 109 QKFHCLVLSQSIGFQEVLSVEVTLHVAANFVVPVVSAPHSPSQ-----DELFTCTGSI 163
DB 118 GSFTCFVSIRDFG-----SAAVSLQVAAAPYSKP--SMTLEPNKDLRPDGTVTITCSSYRG 170
QY 164 YPRPNVYW-----INKTDSLDDQALQNDTVFLNMRGLYDVVSUARIATPSVNIQCIE 218
DB 171 YPEAEVFWDDGGVPLTGAVTTTSQ-----MANQGLFDVHSVLRVVLGANGTYSCLVR 223
QY 219 NVLLQQLTVSGQTGNDIGERDKITENPVSTGEKNAATWSILAVCLIVVAVAIGWYC 277
DB 224 NPVLQDD-AHGSVT-----ITGQPMTFPPE--ALMVTVGLSVCLIALVALAFVC 270

RESULT 14
US-09-875-338-11
Sequence 11, Application US/09875338
Patent No. US20020095024A1
GENERAL INFORMATION:
APPLICANT: MIKESSEL, GLEN E.

```

; APPLICANT: CHANG, HAN
; APPLICANT: FINGER, JOSHUA N.
; APPLICANT: YANG, GUCHEN
; APPLICANT: LU, PIN
; APPLICANT: ZHOU, XIA-DI
; APPLICANT: PEACH, ROBERT
; TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR
; TITLE OF INVENTION: IMMUNOMODULATION
; FILE REFERENCE: 3053-4071US2
; CURRENT APPLICATION NUMBER: US/09/875,338
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: 60/272,107
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/209,811
; PRIOR FILING DATE: 2000-06-06
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-875-338-11

Query Match      19.6%; Score 293.5; DB 10; Length 316;
Best Local Similarity 31.1%; Pred. No. 2e-17;
Matches 93; Conservative 40; Mismatches 111; Indels 55; Gaps 11;

QY  2  RLGSPG-----LLFLFSSLRADTQEKVRAMVGSDELSCACPEGSRRFDLNDV  50
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db  4  RRGSPGMGVHGAALGALWFCITGALEVQVPEPVPVALVGTDTATLCRCSFSPGFSLAQL  63
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||
QY  51  YVWQTSSEKTVVTHIPQNSLENVD--SRYNRALMSPAGMLRGDFSLRLFNVTPODE  108
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||
Db  64  NLIWQLTDTKQLV-----HSFAEGQDQGSAYANRTALFPDLLAQGNASRLQRVRVADE  117
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||
QY  109  QKPHCLVLSQSLGFQFVLSVEVTLHVAANFSPVVSAPHSPSQ-----DELTFTCTTSING  163
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db  118  GSFTCFVSIRDFG-----SAAVSLQVAAPYSKP--SMTLEPNKDLRPGDVTITTCSSYRG  170
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||
QY  164  YPRPNVYW-----INKTDSLLDQALQNDTVFLNMRGLYDVVSVLRIARTPSVNI GCCIE  218
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db  171  YPEAEVFWQDGGVPLTGNVTSQ-----MANEGGLEDFVHSLRVLVLGANGTYSCLVR  223
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||
QY  219  NVLLQNLTVGSGTGNDIGERDKITENPVSTGEKNAATWSILAVLCLLVVVAIVAIGWVC  277
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db  224  NPVLQOD-AHGSVT-----ITQPMTFPPE--ALWVTVGLSVCLIALLVALLAFVC  270
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||

Search completed: December 18, 2002, 07:08:44
Job time : 47.3033 secs
```

```

; APPLICANT: CHANG, HAN
; APPLICANT: FINGER, JOSHUA N.
; APPLICANT: YANG, GUCHEN
; APPLICANT: LU, PIN
; APPLICANT: ZHOU, XIA-DI
; APPLICANT: PEACH, ROBERT
; TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR
; TITLE OF INVENTION: IMMUNOMODULATION
; FILE REFERENCE: 3053-4071US2
; CURRENT APPLICATION NUMBER: US/09/875,338
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: 60/272,107
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/209,811
; PRIOR FILING DATE: 2000-06-06
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-875-338-11

Query Match      19.6%; Score 292.5; DB 9; Length 316;
Best Local Similarity 31.1%; Pred. No. 2.4e-17;
Matches 93; Conservative 39; Mismatches 112; Indels 55; Gaps 11;

QY  2  RLGSPG-----LLFLFSSLRADTQEKVRAMVGSDELSCACPEGSRRFDLNDV  50
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db  4  RRGSPGMGVHGAALGALWFCITGALEVQVPEPVPVALVGTDTATLCRCSFSPGFSLAQL  63
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||
QY  51  YVWQTSSEKTVVTHIPQNSLENVD--SRYNRALMSPAGMLRGDFSLRLFNVTPODE  108
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||
Db  64  NLIWQLTDTKQLV-----HSFTEGRDQGSAYANRTALFPDLLAQGNASRLQRVRVADE  117
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||
QY  109  QKPHCLVLSQSLGFQFVLSVEVTLHVAANFSPVVSAPHSPSQ-----DELTFTCTTSING  163
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db  118  GSFTCFVSIRDFG-----SAAVSLQVAAPYSKP--SMTLEPNKDLRPGDVTITTCSSYRG  170
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||
QY  164  YPRPNVYW-----INKTDSLLDQALQNDTVFLNMRGLYDVVSVLRIARTPSVNI GCCIE  218
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db  171  YPEAEVFWQDGGVPLTGNVTSQ-----MANEGGLEDFVHSLRVLVLGANGTYSCLVR  223
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||
QY  219  NVLLQNLTVGSGTGNDIGERDKITENPVSTGEKNAATWSILAVLCLLVVVAIVAIGWVC  277
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db  224  NPVLQOD-AHGSVT-----ITQPMTFPPE--ALWVTVGLSVCLIALLVALLAFVC  270
    :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||:  :|||

RESULT 15
US-09-915-789A-3
; Sequence 3, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
; TITLE OF INVENTION: MOLECULES
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-915-789A-3

Query Match      19.6%; Score 292.5; DB 9; Length 316;
Best Local Similarity 31.1%; Pred. No. 2.4e-17;
Matches 93; Conservative 39; Mismatches 112; Indels 55; Gaps 11;
```

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 18, 2002, 07:06:12 ; Search time 42.927 Seconds

(without alignments)
104.267 Million cell updates/sec

Title: US-09-728-420C-13

Perfect score: 1393

Sequence: 1 EKEVRAMVSGDVELSCACPE.....VAVAIGWVCERDCLQHSYAG 267

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 106657 seqs, 16763532 residues

Number of hits satisfying chosen parameters: 106657

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
1: /cgn2_6/ptodata/1/pubppaa/US08_NEW_PUB pep:*
2: /cgn2_6/ptodata/1/pubppaa/PCT_NEW_PUB pep:*
3: /cgn2_6/ptodata/1/pubppaa/US06_NEW_PUB pep:*
4: /cgn2_6/ptodata/1/pubppaa/US06_PUBCOMB pep:*
5: /cgn2_6/ptodata/1/pubppaa/US07_NEW_PUB pep:*
6: /cgn2_6/ptodata/1/pubppaa/US07_PUBCOMB pep:*
7: /cgn2_6/ptodata/1/pubppaa/PCTUS_PUBCOMB pep:*
8: /cgn2_6/ptodata/1/pubppaa/US08_PUBCOMB pep:*
9: /cgn2_6/ptodata/1/pubppaa/US09_NEW_PUB pep:*
10: /cgn2_6/ptodata/1/pubppaa/US09_PUBCOMB pep:*
11: /cgn2_6/ptodata/1/pubppaa/US10_NEW_PUB pep:*
12: /cgn2_6/ptodata/1/pubppaa/US10_PUBCOMB pep:*
13: /cgn2_6/ptodata/1/pubppaa/US60_NEW_PUB pep:*
14: /cgn2_6/ptodata/1/pubppaa/US60_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1393	100.0	302	9	US-09-896-738-13
2	1393	100.0	302	10	US-09-955-866-7
3	1393	100.0	302	10	US-09-910-174A-7
4	1392	99.9	309	9	US-09-915-789A-18
5	1392	99.9	343	10	US-09-764-853-630
6	1392	99.9	345	10	US-09-764-853-810
7	1388	99.6	302	10	US-09-789-561-136
8	1388	99.6	344	10	US-09-764-853-812
9	1219	87.5	241	9	US-09-915-789A-11
10	559.5	40.2	322	10	US-09-910-174A-29
11	271	19.5	316	9	US-09-915-789A-1
12	271	19.5	316	10	US-09-875-338-13
13	271	19.5	316	10	US-09-910-174A-24
14	270	19.4	316	10	US-09-875-338-11
15	270	19.4	387	10	US-09-789-561-156
16	270	19.4	534	10	US-09-875-338-7
17	269	19.3	316	9	US-09-915-789A-3
18	267.5	19.2	315	10	US-09-910-174A-28
19	267	19.2	316	9	US-09-978-295A-137

20	267	19.2	316	9	US-09-896-738-14	Sequence 14, Appl
21	267	19.2	316	9	US-09-978-697-137	Sequence 137, App
22	267	19.2	316	9	US-09-978-192A-137	Sequence 137, App
23	267	19.2	316	10	US-09-789-561-135	Sequence 135, App
24	267	19.2	316	10	US-09-955-866-8	Sequence 8, Appl
25	267	19.2	316	12	US-10-052-586-54	Sequence 54, Appl
26	250	17.9	698	10	US-09-875-338-9	Sequence 9, Appl
27	244	17.5	215	9	US-09-915-789A-20	Sequence 20, Appl
28	244	17.5	216	10	US-09-789-561-158	Sequence 158, App
29	182	13.1	329	10	US-09-303-510-6	Sequence 6, Appl
30	182	13.1	329	10	US-09-303-040-6	Sequence 6, Appl
31	179	12.8	526	9	US-09-896-738-19	Sequence 19, Appl
32	179	12.8	526	10	US-09-910-174A-9	Sequence 9, Appl
33	179	12.8	526	10	US-09-955-866-13	Sequence 13, Appl
34	169	12.1	309	10	US-09-837-867A-21	Sequence 21, Appl
35	169	12.1	314	10	US-09-837-867A-13	Sequence 13, Appl
36	164.5	11.8	288	8	US-08-592-711-2	Sequence 2, Appl
37	164.5	11.8	288	9	US-09-896-738-10	Sequence 10, Appl
38	164.5	11.8	288	9	US-09-915-789A-15	Sequence 15, Appl
39	164.5	11.8	288	10	US-09-772-102-14	Sequence 14, Appl
40	164.5	11.8	288	10	US-09-837-867A-19	Sequence 19, Appl
41	164.5	11.8	288	10	US-09-910-174A-5	Sequence 5, Appl
42	161	11.6	226	9	US-09-915-789A-21	Sequence 21, Appl
43	161	11.6	473	10	US-09-910-059-131	Sequence 131, App
44	161	11.6	492	10	US-09-845-889A-3	Sequence 3, Appl
45	159	11.4	323	9	US-09-896-738-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-09-896-738-13
Sequence 13, Application US/09896738
Patent No. US20020165347A1
GENERAL INFORMATION:
APPLICANT: Fox, Michael
APPLICANT: Sullivan, John K.
TITLE OF INVENTION: B7-Like Molecules and Uses Thereof
FILE REFERENCE: 00-513-A
CURRENT APPLICATION NUMBER: US/09/896,738
CURRENT FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: 60/215,645
PRIOR FILING DATE: 2000-06-30
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13
LENGTH: 302
TYPE: PRT
ORGANISM: Homo sapiens
US-09-896-738-13

Query Match	Best Local Similarity	Score	DB ID	Length
Matches 267/	Conservative	100.0%; Pred. No. 1.36-112;	0;	Indels 0; Gaps 0;
1	EKEVRAMVSGDVELSCACPEGRFRFNDYVYVWQTSKTVVTHIPONSLENDYSRR	60		
22	EKEVRAMVSGDVELSCACPEGRFRFNDYVYVWQTSKTVVTHIPONSLENDYSRR	81		
61	NRAIMSPAGMLRGDFSLRFLNVTVPQDEQKFCVLVSQSLGFEVLSVEVTLVAANFSVP	120		
82	NRAIMSPAGMLRGDFSLRFLNVTVPQDEQKFCVLVSQSLGFEVLSVEVTLVAANFSVP	141		
121	VSAHPSPSODELTFPCTSGNGYPRPNVYVWINKTNSLDDOALONDYVFLNKGLYDVIS	180		
142	VSAHPSPSODELTFPCTSGNGYPRPNVYVWINKTNSLDDOALONDYVFLNKGLYDVIS	201		
181	VLAIRTPSVNICCCENYVLLQNLTVGSGTNDIGERDKITENPVSSTGEKAAATWSILA	240		
202	VLAIRTPSVNICCCENYVLLQNLTVGSGTNDIGERDKITENPVSSTGEKAAATWSILA	261		

QY 241 VLCLLVVVAIVAGWVCRDRCLQHSYAG 267
Db 262 VLCLLVVVAIVAGWVCRDRCLQHSYAG 288

RESULT 2

US-09-955-866-7

; Sequence 7, Application US/09955866
; Patent No. US20020107363A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Michael
; APPLICANT: Sullivan, John K.
; APPLICANT: Holst, Paige
; APPLICANT: Yoshinaga, Steven Kiyoshi
; TITLE OF INVENTION: B7-Like Polypeptides and Uses Thereof
; FILE REFERENCE: 00.759-A
; CURRENT APPLICATION NUMBER: US/09/955,866
; PRIOR FILING DATE: 2001-09-19
; PRIOR APPLICATION NUMBER: 60/233,867
; PRIOR FILING DATE: 2000-09-20
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-955-866-7

Query Match 100.0%; Score 1393; DB 10; Length 302;
Best Local Similarity 100.0%; Pred. No. 1.3e-112;
Matches 267; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVWQTSSEKTVVYHIPQNSSLENVDSRYR 60
Db 22 EKEVRAMVGSDELSCACPEGRFDLNDVYVWQTSSEKTVVYHIPQNSSLENVDSRYR 81
QY 61 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKFHCLVLSQSLGFOEVLSEVTLHVAANFSVP 120
Db 82 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKFHCLVLSQSLGFOEVLSEVTLHVAANFSVP 141
QY 121 VVSAPHSQSDELFTTCTTSINGYPRENVYWKNTDNLSDQALQNDTVFLNMRGLYDVVS 180
Db 142 VVSAPHSQSDELFTTCTTSINGYPRENVYWKNTDNLSDQALQNDTVFLNMRGLYDVVS 201
QY 181 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 240
Db 202 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 261
QY 241 VLCLLVVVAIVAGWVCRDRCLQHSYAG 267
Db 262 VLCLLVVVAIVAGWVCRDRCLQHSYAG 288

RESULT 3

US-09-910-174A-7

; Sequence 7, Application US/09910174A
; Patent No. US20020106730A1
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Fraser, Christopher C.
; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1el Members of the B7
; FILE REFERENCE: 35800/236924
; CURRENT APPLICATION NUMBER: US/09/910,174A
; PRIOR FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 09/620,461
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 309
; TYPE: PRT

; ORGANISM: Homo sapiens
US-09-910-174A-7

Query Match 100.0%; Score 1393; DB 10; Length 309;
Best Local Similarity 100.0%; Pred. No. 1.4e-112;
Matches 267; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVWQTSSEKTVVYHIPQNSSLENVDSRYR 60
Db 22 EKEVRAMVGSDELSCACPEGRFDLNDVYVWQTSSEKTVVYHIPQNSSLENVDSRYR 81
QY 61 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKFHCLVLSQSLGFOEVLSEVTLHVAANFSVP 120
Db 82 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKFHCLVLSQSLGFOEVLSEVTLHVAANFSVP 141
QY 121 VVSAPHSQSDELFTTCTTSINGYPRENVYWKNTDNLSDQALQNDTVFLNMRGLYDVVS 180
Db 142 VVSAPHSQSDELFTTCTTSINGYPRENVYWKNTDNLSDQALQNDTVFLNMRGLYDVVS 201
QY 181 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 240
Db 202 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 261
QY 241 VLCLLVVVAIVAGWVCRDRCLQHSYAG 267
Db 262 VLCLLVVVAIVAGWVCRDRCLQHSYAG 288

RESULT 4

US-09-915-789A-18

; Sequence 18, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-915-789A-18

Query Match 99.9%; Score 1392; DB 9; Length 302;
Best Local Similarity 99.6%; Pred. No. 1.6e-112;
Matches 266; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVWQTSSEKTVVYHIPQNSSLENVDSRYR 60
Db 22 EKEVRAMVGSDELSCACPEGRFDLNDVYVWQTSSEKTVVYHIPQNSSLENVDSRYR 81
QY 61 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKFHCLVLSQSLGFOEVLSEVTLHVAANFSVP 120
Db 82 NRALMSPAGMLRGDFSLRFLFNVTTPDEQKFHCLVLSQSLGFOEVLSEVTLHVAANFSVP 141
QY 121 VVSAPHSQSDELFTTCTTSINGYPRENVYWKNTDNLSDQALQNDTVFLNMRGLYDVVS 180
Db 142 VVSAPHSQSDELFTTCTTSINGYPRENVYWKNTDNLSDQALQNDTVFLNMRGLYDVVS 201
QY 181 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 240
Db 202 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 261
QY 241 VLCLLVVVAIVAGWVCRDRCLQHSYAG 267
Db 262 VLCLLVVVAIVAGWVCRDRCLQHSYAG 288

RESULT 5
US-09-764-853-630
; Sequence 630, Application US/09764853
; Patent No. US20020090672A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P206
; CURRENT APPLICATION NUMBER: US/09/764,853
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 630
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-853-630

Query Match 99.9%; Score 1392; DB 10; Length 343;
Best Local Similarity 99.6%; Pred. No. 1.9e-112;
Matches 266; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVTHIPONSSLENVDSRYR 60
DB 63 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVTHIPONSSLENVDSRYR 122
QY 61 NRALMSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 120
DB 123 NRALMSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 182
QY 121 VVSAPHSODELFTCTCSINGYPRPNVYVWINKTNSLDDQALQNDTVFLNMRGLYDVVS 180
DB 183 VVSAPHSODELFTCTCSINGYPRPNVYVWINKTNSLDDQALQNDTVFLNMRGLYDVVS 242
QY 181 VRIARTPSVNI GCCIENVLLOONLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 240
DB 243 VRIARTPSVNI GCCIENVLLOONLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 302
QY 241 VVCLLVVVAIVAIGWCRDRCLQHSYAG 267
DB 303 VVCLLVVVAIVAIGWCRDRCLQHSYAG 329

RESULT 6
US-09-764-853-810
; Sequence 810, Application US/09764853
; Patent No. US20020090672A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P206
; CURRENT APPLICATION NUMBER: US/09/764,853
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 810
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-853-810

Query Match 99.9%; Score 1392; DB 10; Length 345;
Best Local Similarity 99.6%; Pred. No. 1.9e-112;
Matches 266; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVTHIPONSSLENVDSRYR 60
DB 65 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVTHIPONSSLENVDSRYR 124
QY 61 NRALMSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 120

DB 125 NRALMSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 184
QY 121 VVSAPHSODELFTCTCSINGYPRPNVYVWINKTNSLDDQALQNDTVFLNMRGLYDVVS 180
DB 185 VVSAPHSODELFTCTCSINGYPRPNVYVWINKTNSLDDQALQNDTVFLNMRGLYDVVS 244
QY 181 VRIARTPSVNI GCCIENVLLOONLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 240
DB 245 VRIARTPSVNI GCCIENVLLOONLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 304
QY 241 VVCLLVVVAIVAIGWCRDRCLQHSYAG 267
DB 305 VVCLLVVVAIVAIGWCRDRCLQHSYAG 331

RESULT 7
US-09-789-561-136
; Sequence 136, Application US/09789561
; Patent No. US2002064818A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 52 Human secreted proteins
; FILE REFERENCE: P2043P1
; CURRENT APPLICATION NUMBER: US/09/789,561
; CURRENT FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: PCT/US00/24008
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152,317
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/152,315
; PRIOR FILING DATE: 1999-09-03
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; LOCATION: (128)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-789-561-136

Query Match 99.6%; Score 1388; DB 10; Length 302;
Best Local Similarity 99.6%; Pred. No. 3.6e-112;
Matches 266; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVTHIPONSSLENVDSRYR 60
DB 22 EKEVRAMVGSDELSCACPEGRFDLNDVYVYVWQTSSEKTVVTHIPONSSLENVDSRYR 81
QY 61 NRALMSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 120
DB 82 NRALMSPAGMLRGDFSLRFNVTPODEQKFCGLVLSQSLGFQEVLSVEVTLHVAANFSVP 141
QY 121 VVSAPHSODELFTCTCSINGYPRPNVYVWINKTNSLDDQALQNDTVFLNMRGLYDVVS 180
DB 142 VVSAPHSODELFTCTCSINGYPRPNVYVWINKTNSLDDQALQNDTVFLNMRGLYDVVS 201
QY 181 VRIARTPSVNI GCCIENVLLOONLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 240
DB 202 VRIARTPSVNI GCCIENVLLOONLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILA 261
QY 241 VVCLLVVVAIVAIGWCRDRCLQHSYAG 267
DB 262 VVCLLVVVAIVAIGWCRDRCLQHSYAG 288

RESULT 8
US-09-764-853-812
; Sequence 812, Application US/09764853
; Patent No. US20020090672A1

```
; GENERAL INFORMATION:
; APPLICANT: Roen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PJ206
; CURRENT APPLICATION NUMBER: US/09/764,853
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 812
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (170)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-853-812

Query Match      99.6%; Score 1388; DB 10; Length 344;
Best Local Similarity 99.6%; Pred. No. 4.3e-112;
Matches 266; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVWQTSKTVVYHQPONSSLENVDSRYR 60
DB 64 EKEVRAMVGSDELSCACPEGRFDLNDVYVWQTSKTVVYHQPONSSLENVDSRYR 123

QY 61 NRALMSPAGMLRGDFSLRNFVTPQDEQKPHCLVLSQSLGFOEVLSEVTLHVAANFSVP 120
DB 124 NRALMSPAGMLRGDFSLRNFVTPQDEQKPHCLVLSQSLGFOEVLSEVTLHVAANFSVP 183

QY 121 VVSAPHSPQDELFTTCTTSINGYPRPNVYVWINKTDSLLDQALQNDTVFLNMRGLYDVVS 180
DB 184 VVSAPHSPQDELFTTCTTSINGYPRPNVYVWINKTDSLLDQALQNDTVFLNMRGLYDVVS 243

QY 181 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 240
DB 244 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGEKNAATWSILA 303

QY 241 VLCLLVVVAIVAIGWCRDRLQHSYAG 267
DB 304 VLCLLVVVAIVAIGWCRDRLQHSYAG 330

RESULT 9
US-09-915-789A-11
; Sequence 11, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY MOLECULES
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-915-789A-11

Query Match      87.5%; Score 1219; DB 9; Length 241;
Best Local Similarity 99.6%; Pred. No. 9.1e-98;
Matches 234; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVWQTSKTVVYHQPONSSLENVDSRYR 60
DB 7 EKEVRAMVGSDELSCACPEGRFDLNDVYVWQTSKTVVYHQPONSSLENVDSRYR 66
```

```
QY 61 NRALMSPAGMLRGDFSLRNFVTPQDEQKPHCLVLSQSLGFOEVLSEVTLHVAANFSVP 120
DB 67 NRALMSPAGMLRGDFSLRNFVTPQDEQKPHCLVLSQSLGFOEVLSEVTLHVAANFSVP 126

QY 121 VVSAPHSPQDELFTTCTTSINGYPRPNVYVWINKTDSLLDQALQNDTVFLNMRGLYDVVS 180
DB 127 VVSAPHSPQDELFTTCTTSINGYPRPNVYVWINKTDSLLDQALQNDTVFLNMRGLYDVVS 186

QY 181 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGEKNAAT 235
DB 187 VLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGEKNAAT 241

RESULT 10
US-09-910-174A-29
; Sequence 29, Application US/09910174A
; Patent No. US20020106730A1
; GENERAL INFORMATION:
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Fraser, Christopher C.
; APPLICANT: Manning, Stephen
; TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1 Members of the B7
; TITLE OF INVENTION: Family and Uses Thereof
; FILE REFERENCE: 35800/236924
; CURRENT APPLICATION NUMBER: US/09/910,174A
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 09/620,461
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-910-174A-29

Query Match      40.2%; Score 559.5; DB 10; Length 322;
Best Local Similarity 46.2%; Pred. No. 6.3e-41;
Matches 127; Conservative 38; Mismatches 91; Indels 19; Gaps 7;

QY 1 EKEVRAMVGSDELSCACPEGRFDLNDVYVWQTSKTVVYHQPONSSLENVDSRYR 60
DB 47 ETEVGAMVGSNNVLSCLDIPRRHFNLSGLVYVWQIENPEVSVTYIPLPKSPGINVDSSYK 106

QY 61 NRALMSPAGMLRGDFSLRNFVTPQDEQKPHCLVLSQSLGFOEVLSEVTLHVAANFSVP 119
DB 107 NRGLSLDSMKQGNFSLYLNVTPODTQETPCRVFMTATELVKILEEVVRLRVAANFST 166

QY 120 PVVSAPHSPQDELFTTCTTSINGYPRPNVYVWINKTDSLLDQALQNDTVFLNMRGLYD 177
DB 167 PVISTSDSNPQQ-ERTYTCMKNGYPEPEPLYWINTDLSLIDTALQNNVTYLNKUGLYD 225

QY 178 VVSVLRIARTPSVNIACCENLVLLQNLTVGSGTNDIGERDKITENPVSTGEKNA 233
DB 226 VISTRLPWTSGDVLCCVENVALHQNITISQAESFTGNN-----TKNPQETHNEL 278

QY 234 ATWSILAVLCLLVVVAIVAIGWCRDRLQHSYAG 267
DB 279 ---KVLVPVLAVLAAAFAVSVFIYRRTRPRHSYTG 310

RESULT 11
US-09-915-789A-1
; Sequence 1, Application US/09915789A
; Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY MOLECULES
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
```

PRIOR FILING DATE: 2000-07-27
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 316
TYPE: PR
ORGANISM: Homo sapiens
US-09-915-789A-1

Query Match 19.5%; Score 271; DB 9; Length 316;
Best Local Similarity 31.3%; Pred. No. 3.8e-16;
Matches 84; Conservative 39; Mismatches 101; Indels 44; Gaps 10;

QY 1 EKEVRAMGSDVELSCACPEGRFDLNDVYVYWTSEKTVVTHIPONSLIENV--SR 58
DB 35 EDPVALVGTDAITLCCSPSPGFSIAQLNIWQITDKQLV-----HSPAEQDQGS 88
QY 59 YNRNALMSPAGMLRGDFSLRLFNVTPODEQKHCLVLSQSIFQEVLSVEVTLHVAANFS 118
DB 89 YANRTALFPDLIAQGNASRLQVRVADESGFTCFVSIRDFG-----SAAVSLQVAAPYS 143
QY 9 VVVSAPHSPSQ-----DELFTCTISINGYPRPNVY-----INKTNSLIDQALQNDTV 168
DB 144 KP--SWTLEPNKDLRPGDTVITTCSSYRGYPEABVFMQDGGVPLTGVTTSQ----- 194
QY 169 FLNMRGLYDVSVLRIRTPSVNIGCCIEENVLLQONTLVGSGTGNDIGERDKITENPVST 228
DB 195 MANEQGLFVHVSILRVLVGANGTYSCLVRNPVLQOD-AHGSVT-----ITGQPMTF 244
QY 229 GEKNATWSIIAIVLCILVVAVAIGMVC 256
DB 245 PPE--ALMWTGSLVCLIALVLAFAVC 270

RESULT 12

US-09-875-338-13
Sequence 13, Application US/09875338
Patent No. US20020095024A1
GENERAL INFORMATION:
APPLICANT: MIKESSELL, GLEN E.
APPLICANT: CHANG, HAN
APPLICANT: FINGER, JOSHUA N.
APPLICANT: YANG, GUCHEN
APPLICANT: LU, PIN
APPLICANT: ZHOU, XIA-DI
APPLICANT: PEACH, ROBERT
TITLE OF INVENTION: BT-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR
TITLE OF INVENTION: IMMUNOMODULATION
REFERENCE: 3053-4071US2
CURRENT APPLICATION NUMBER: US/09/875,338
CURRENT FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 60/272,107
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 60/209,811
PRIOR FILING DATE: 2000-06-06
NUMBER OF SEQ ID NOS: 94
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 316
TYPE: PR
ORGANISM: Homo sapiens
US-09-875-338-13

Query Match 19.5%; Score 271; DB 10; Length 316;
Best Local Similarity 31.3%; Pred. No. 3.8e-16;
Matches 84; Conservative 39; Mismatches 101; Indels 44; Gaps 10;

QY 1 EKEVRAMGSDVELSCACPEGRFDLNDVYVYWTSEKTVVTHIPONSLIENV--SR 58
DB 35 EDPVALVGTDAITLCCSPSPGFSIAQLNIWQITDKQLV-----HSPAEQDQGS 88
QY 59 YNRNALMSPAGMLRGDFSLRLFNVTPODEQKHCLVLSQSIFQEVLSVEVTLHVAANFS 118

DB 89 YANRTALFPDLIAQGNASRLQVRVADESGFTCFVSIRDFG-----SAAVSLQVAAPYS 143
QY 119 VVVSAPHSPSQ-----DELFTCTISINGYPRPNVY-----INKTNSLIDQALQNDTV 168
DB 144 KP--SWTLEPNKDLRPGDTVITTCSSYRGYPEABVFMQDGGVPLTGVTTSQ----- 194
QY 169 FLNMRGLYDVSVLRIRTPSVNIGCCIEENVLLQONTLVGSGTGNDIGERDKITENPVST 228
DB 195 MANEQGLFVHVSILRVLVGANGTYSCLVRNPVLQOD-AHGSVT-----ITGQPMTF 244
QY 229 GEKNATWSIIAIVLCILVVAVAIGMVC 256
DB 245 PPE--ALMWTGSLVCLIALVLAFAVC 270

RESULT 13

US-09-910-174A-24
Sequence 24, Application US/09910174A
Patent No. US20020106730A1
GENERAL INFORMATION:
APPLICANT: Coyle, Anthony J.
APPLICANT: Fraser, Christopher C.
APPLICANT: Manning, Stephen
TITLE OF INVENTION: B7-H2 Molecules, No. US20020106730A1 Members of the B7
TITLE OF INVENTION: Family and Uses Thereof
FILE REFERENCE: 35800/236924
CURRENT APPLICATION NUMBER: US/09/910,174A
CURRENT FILING DATE: 2001-07-20
PRIOR APPLICATION NUMBER: US 09/620,461
PRIOR FILING DATE: 2000-07-20
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 24
LENGTH: 316
TYPE: PR
ORGANISM: Homo sapiens
US-09-910-174A-24

Query Match 19.5%; Score 271; DB 10; Length 316;
Best Local Similarity 31.3%; Pred. No. 3.8e-16;
Matches 84; Conservative 39; Mismatches 101; Indels 44; Gaps 10;

QY 1 EKEVRAMGSDVELSCACPEGRFDLNDVYVYWTSEKTVVTHIPONSLIENV--SR 58
DB 35 EDPVALVGTDAITLCCSPSPGFSIAQLNIWQITDKQLV-----HSPAEQDQGS 88
QY 59 YNRNALMSPAGMLRGDFSLRLFNVTPODEQKHCLVLSQSIFQEVLSVEVTLHVAANFS 118
DB 89 YANRTALFPDLIAQGNASRLQVRVADESGFTCFVSIRDFG-----SAAVSLQVAAPYS 143
QY 119 VVVSAPHSPSQ-----DELFTCTISINGYPRPNVY-----INKTNSLIDQALQNDTV 168
DB 144 KP--SWTLEPNKDLRPGDTVITTCSSYRGYPEABVFMQDGGVPLTGVTTSQ----- 194
QY 169 FLNMRGLYDVSVLRIRTPSVNIGCCIEENVLLQONTLVGSGTGNDIGERDKITENPVST 228
DB 195 MANEQGLFVHVSILRVLVGANGTYSCLVRNPVLQOD-AHGSVT-----ITGQPMTF 244
QY 229 GEKNATWSIIAIVLCILVVAVAIGMVC 256
DB 245 PPE--ALMWTGSLVCLIALVLAFAVC 270

RESULT 14

US-09-875-338-11
Sequence 11, Application US/09875338
Patent No. US20020095024A1
GENERAL INFORMATION:
APPLICANT: MIKESSELL, GLEN E.
APPLICANT: CHANG, HAN
APPLICANT: FINGER, JOSHUA N.
APPLICANT: YANG, GUCHEN
APPLICANT: LU, PIN

```

; APPLICANT: ZHOU, XIA-DI
; APPLICANT: PEACH, ROBERT
; TITLE OF INVENTION: B7-RELATED NUCLEIC ACIDS AND POLYPEPTIDES USEFUL FOR
; TITLE OF INVENTION: IMMUNOMODULATION
; FILE REFERENCE: 3053-4071US2
; CURRENT APPLICATION NUMBER: US/09/875,338
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: 60/272,107
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/209,811
; PRIOR FILING DATE: 2000-06-06
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-875-338-11

Query Match      19.4%; Score 270; DB 10; Length 316;
Best Local Similarity 31.3%; Pred. No. 4.6e-16;
Matches 84; Conservative 39; Mismatches 101; Indels 44; Gaps 10;

QY 1 EKEVRAMGSDVELSCACPEGSRFDLNDVYVYVWQTSKTVVYTHIPONSLENVD--SR 58
DB 35 EDPVALVGTDTALRCSPFEPGFSLQNLNLWQLTDTKQLV-----HSFTEGRDQSA 88

QY 59 YRNRALMSPAGMLRGDFSLRLFNVTTPQDEQKFKHCLVLSQSGLGFQEVLSVEVTLHVAANFS 118
DB 89 YANRTALFPDLLAQGNASLRLQVRVVADEGSFTCFVSIKDFG-----SAAVSLQVAAAPYS 143

QY 119 VPVVSAPHSPSQ-----DELFTCTCTSINGYPRPNVYV-----INKTDSLLDQALQNDTV 168
DB 144 KP--SMTLEPNKDLRPGDVTITTCSSYRGYPEAEVFWQDGGVPLTGNVTTTQ----- 194

QY 169 FLNMRGLYDVSVLRIARTPSVNIQCIENVLQQLNLTVGSOTGNDIGERDKITENPVST 228
DB 195 MANEQGLFDVHSLRVLVGLGANGTYSCLVNPNVLQDD-AHGSVT-----ITGQPMTF 244

QY 229 GEKNAATWSILAVLCLLVVVAIVAGWVC 256
DB 245 PPE--ALWVTVGLSVCLIALVALAFVC 270

RESULT 15
US-09-789-561-156
; Sequence 156, Application US/09789561
; Patent No. US20020064818A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 52 Human secreted proteins
; FILE REFERENCE: PZ043P1
; CURRENT APPLICATION NUMBER: US/09/789,561
; CURRENT FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: PCT/US00/24008
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152,317
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/152,315
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 156
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-789-561-156

Query Match      19.4%; Score 270; DB 10; Length 387;
Best Local Similarity 31.3%; Pred. No. 6e-16;
Matches 84; Conservative 39; Mismatches 101; Indels 44; Gaps 10;

QY 1 EKEVRAMGSDVELSCACPEGSRFDLNDVYVYVWQTSKTVVYTHIPONSLENVD--SR 58
```

```

DB 106 EDPVALVGTDTALRCSPFEPGFSLQNLNLWQLTDTKQLV-----HSFTEGRDQSA 159
QY 59 YRNRALMSPAGMLRGDFSLRLFNVTTPQDEQKFKHCLVLSQSGLGFQEVLSVEVTLHVAANFS 118
DB 160 YANRTALFPDLLAQGNASLRLQVRVVADEGSFTCFVSIKDFG-----SAAVSLQVAAAPYS 214
QY 119 VPVVSAPHSPSQ-----DELFTCTCTSINGYPRPNVYV-----INKTDSLLDQALQNDTV 168
DB 215 KP--SMTLEPNKDLRPGDVTITTCSSYRGYPEAEVFWQDGGVPLTGNVTTTQ----- 265
QY 169 FLNMRGLYDVSVLRIARTPSVNIQCIENVLQQLNLTVGSOTGNDIGERDKITENPVST 228
DB 266 MANEQGLFDVHSLRVLVGLGANGTYSCLVNPNVLQDD-AHGSVT-----ITGQPMTF 315
QY 229 GEKNAATWSILAVLCLLVVVAIVAGWVC 256
DB 316 PPE--ALWVTVGLSVCLIALVALAFVC 341
```

Search completed: December 18, 2002, 07:08:45
Job time : 43.927 secs